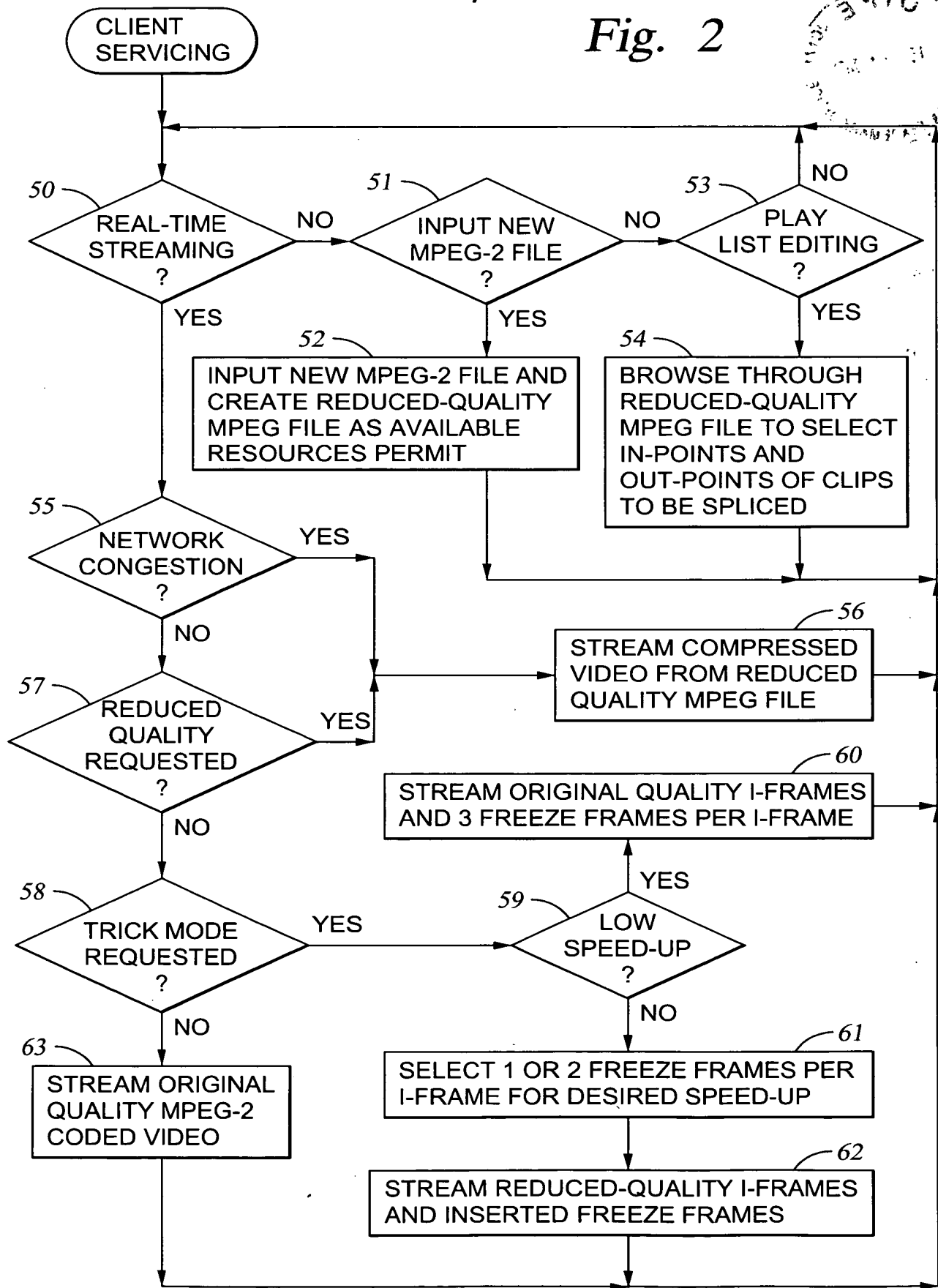


Fig. 1

Fig. 2



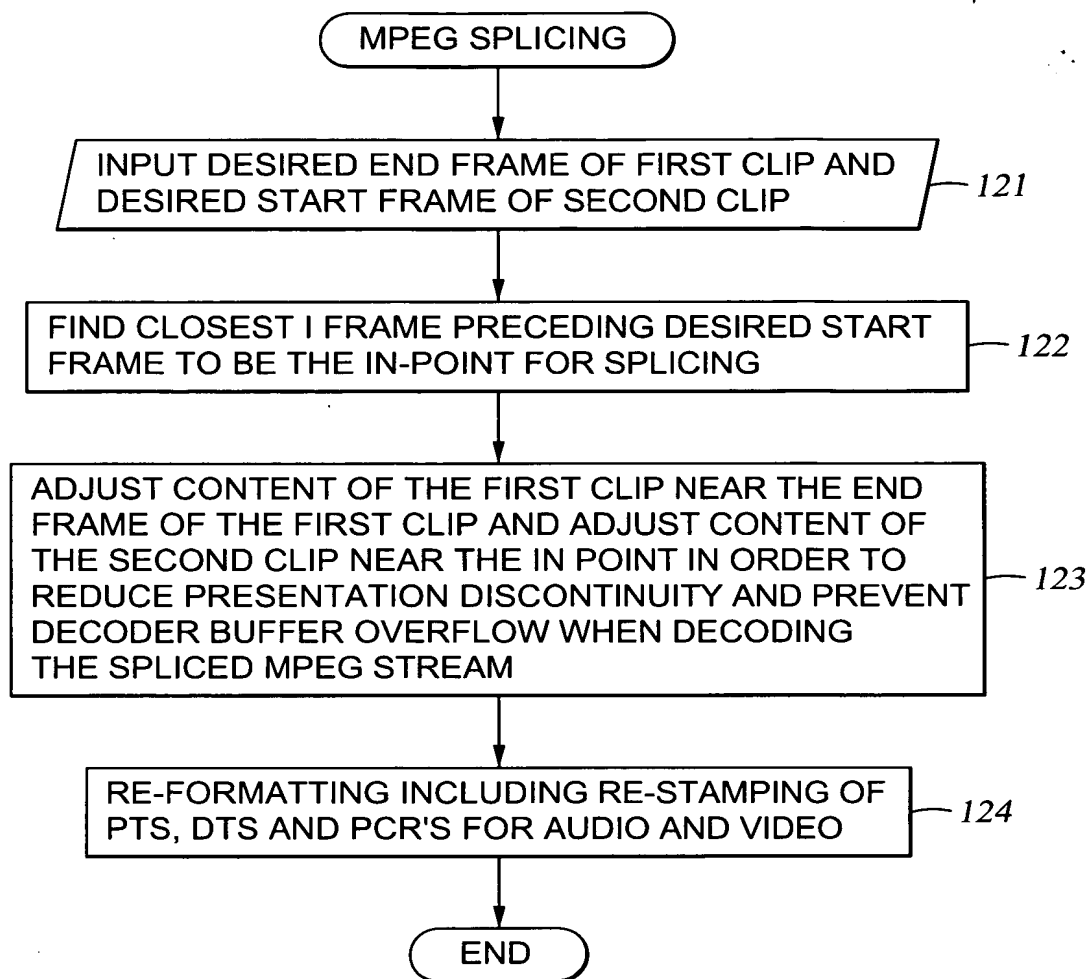


Fig. 3

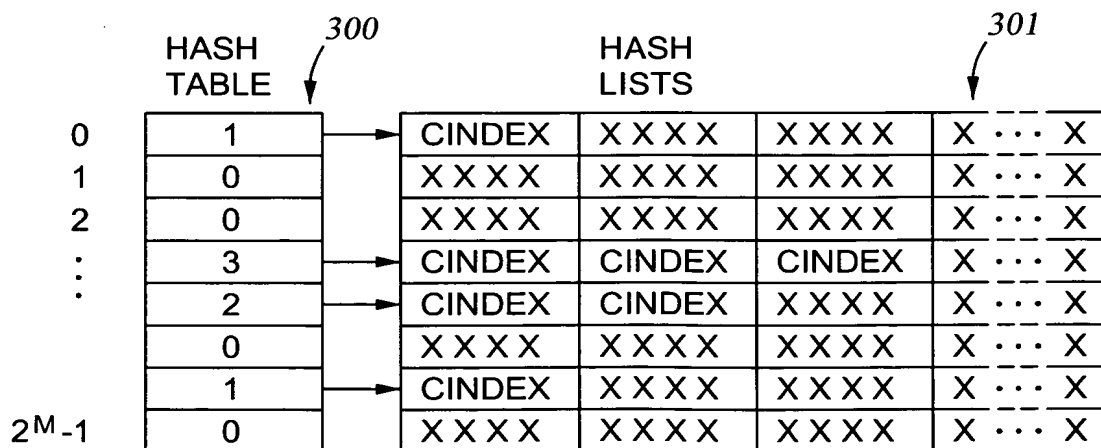
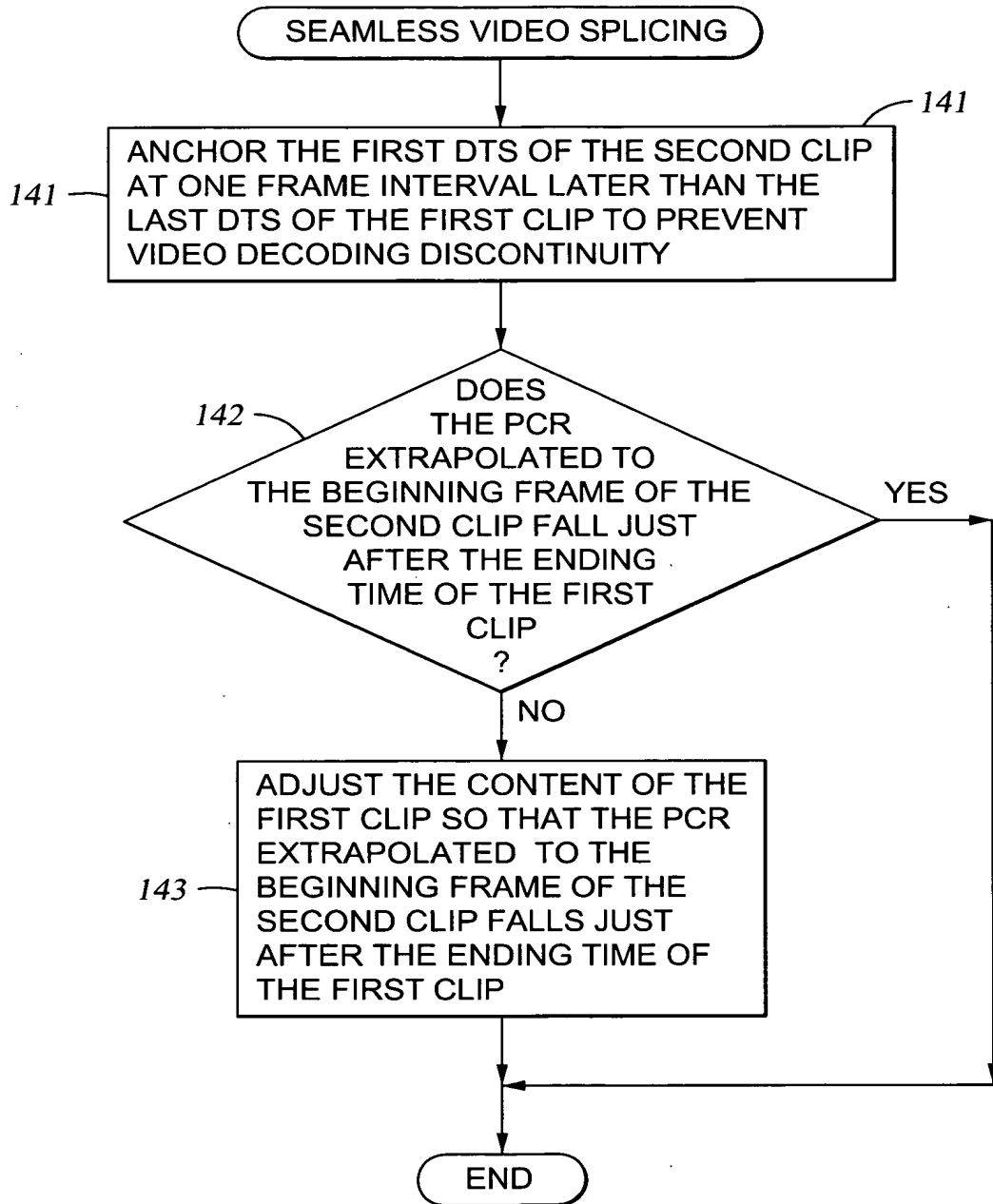


Fig. 18

*Fig. 4*

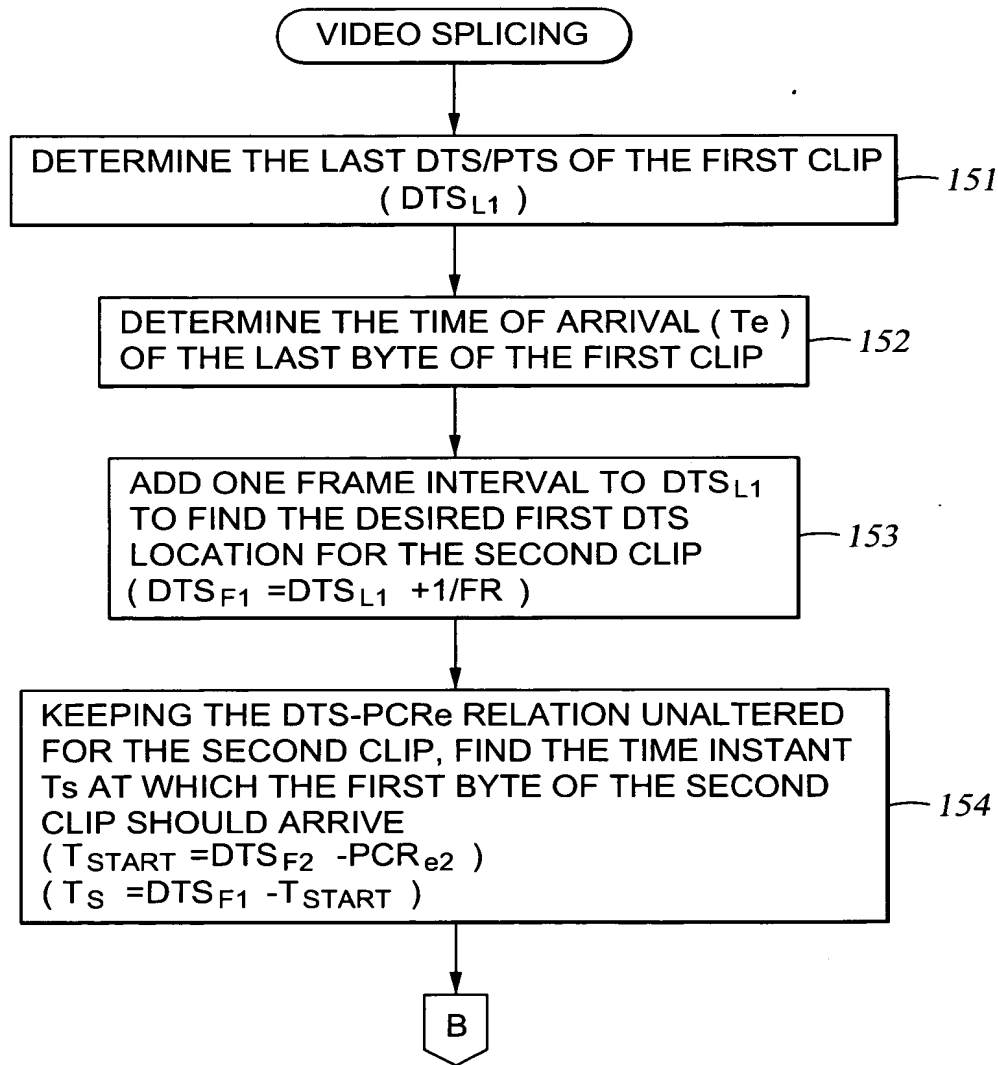
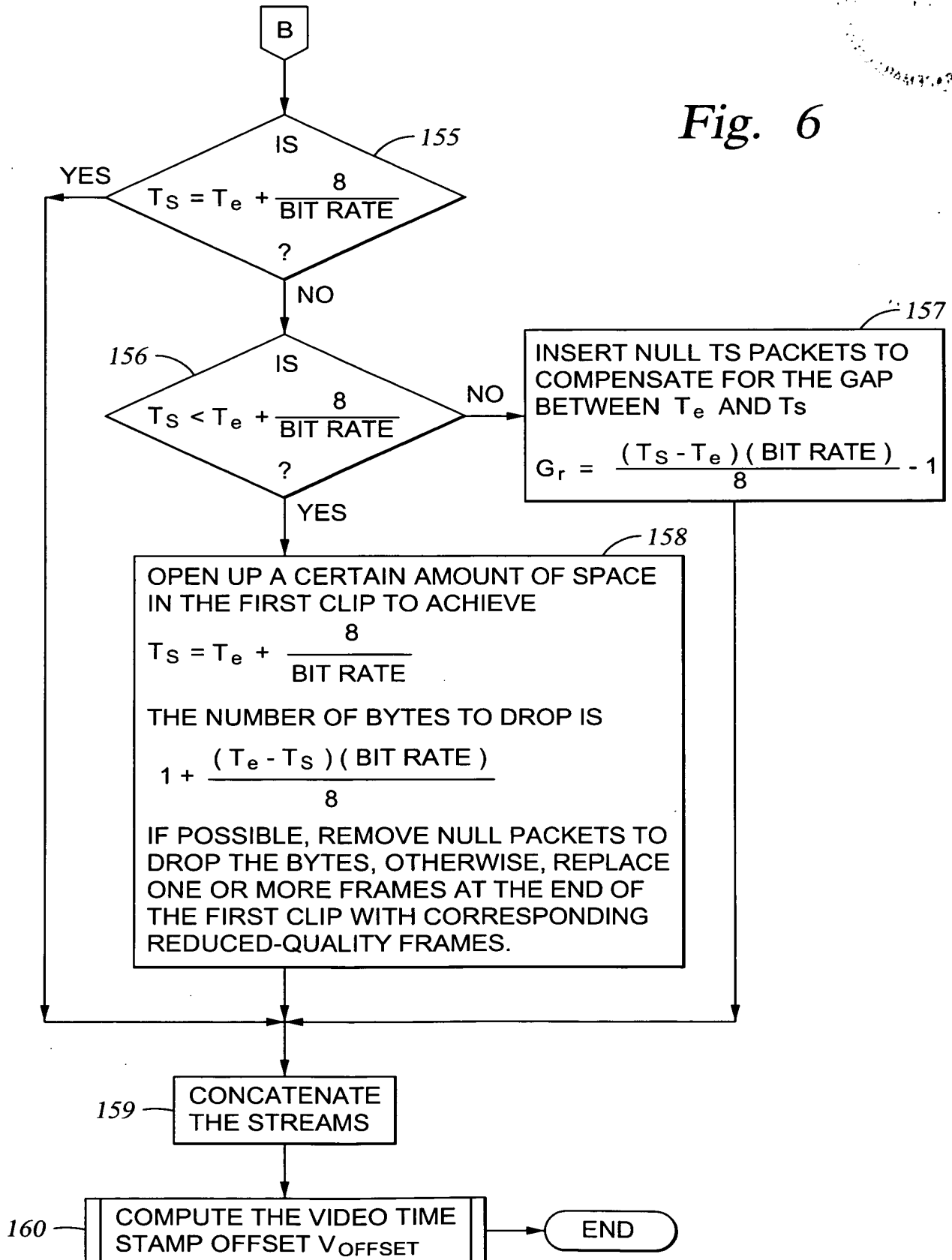
*Fig. 5*

Fig. 6



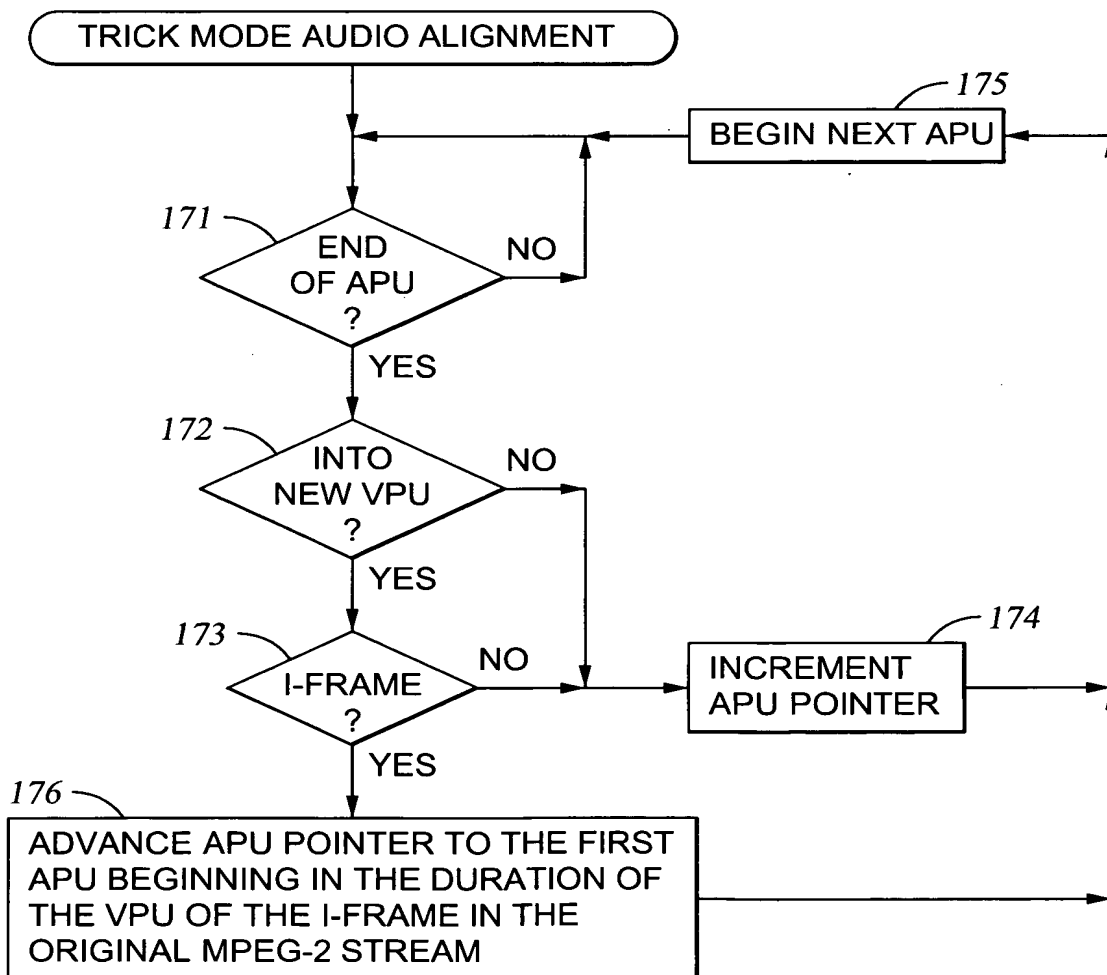
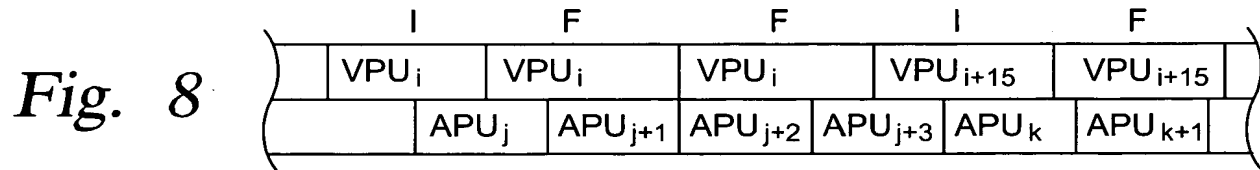
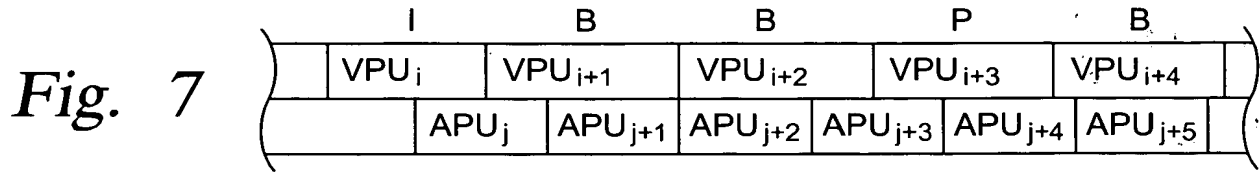
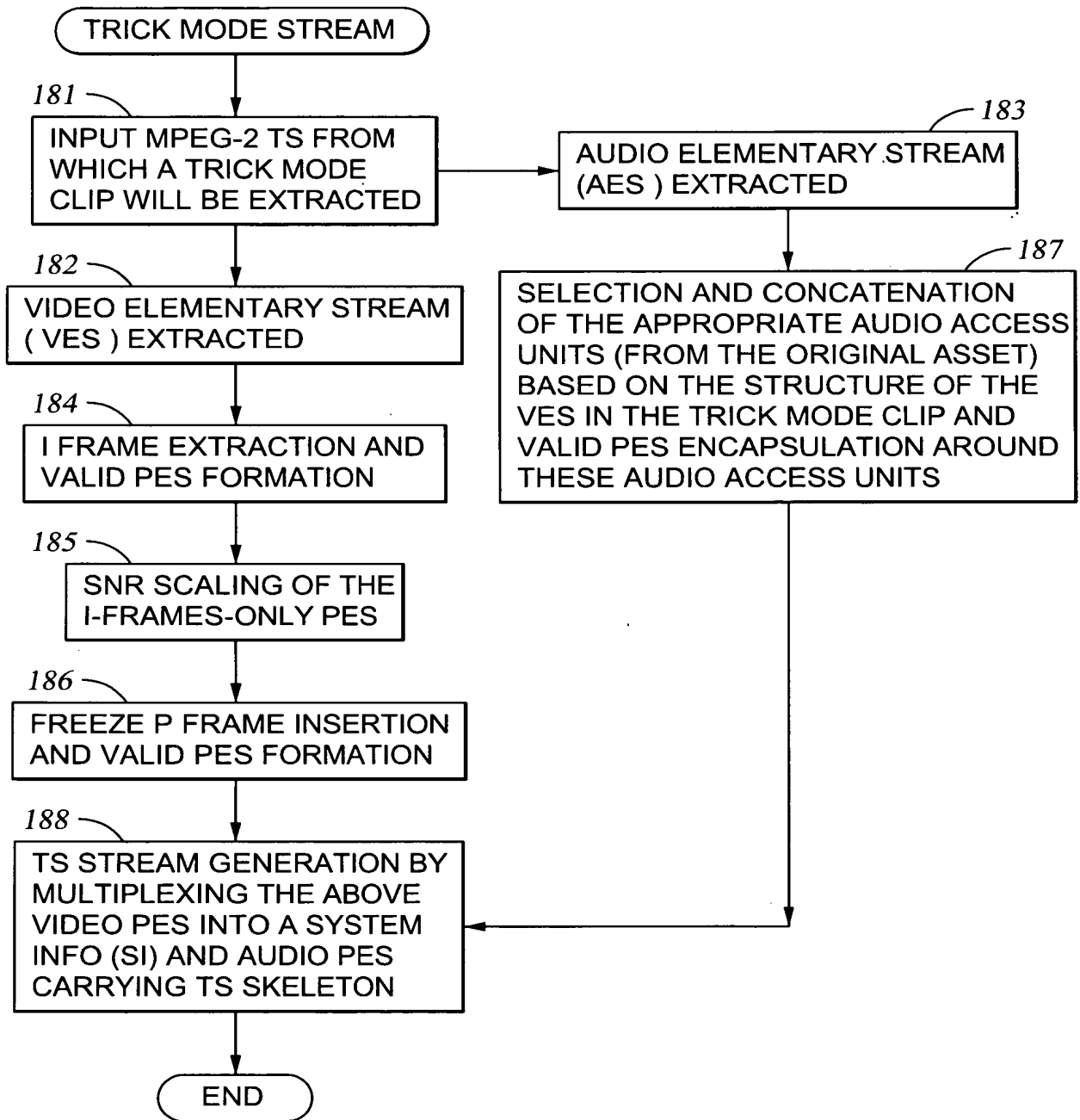


Fig. 9

*Fig. 10*

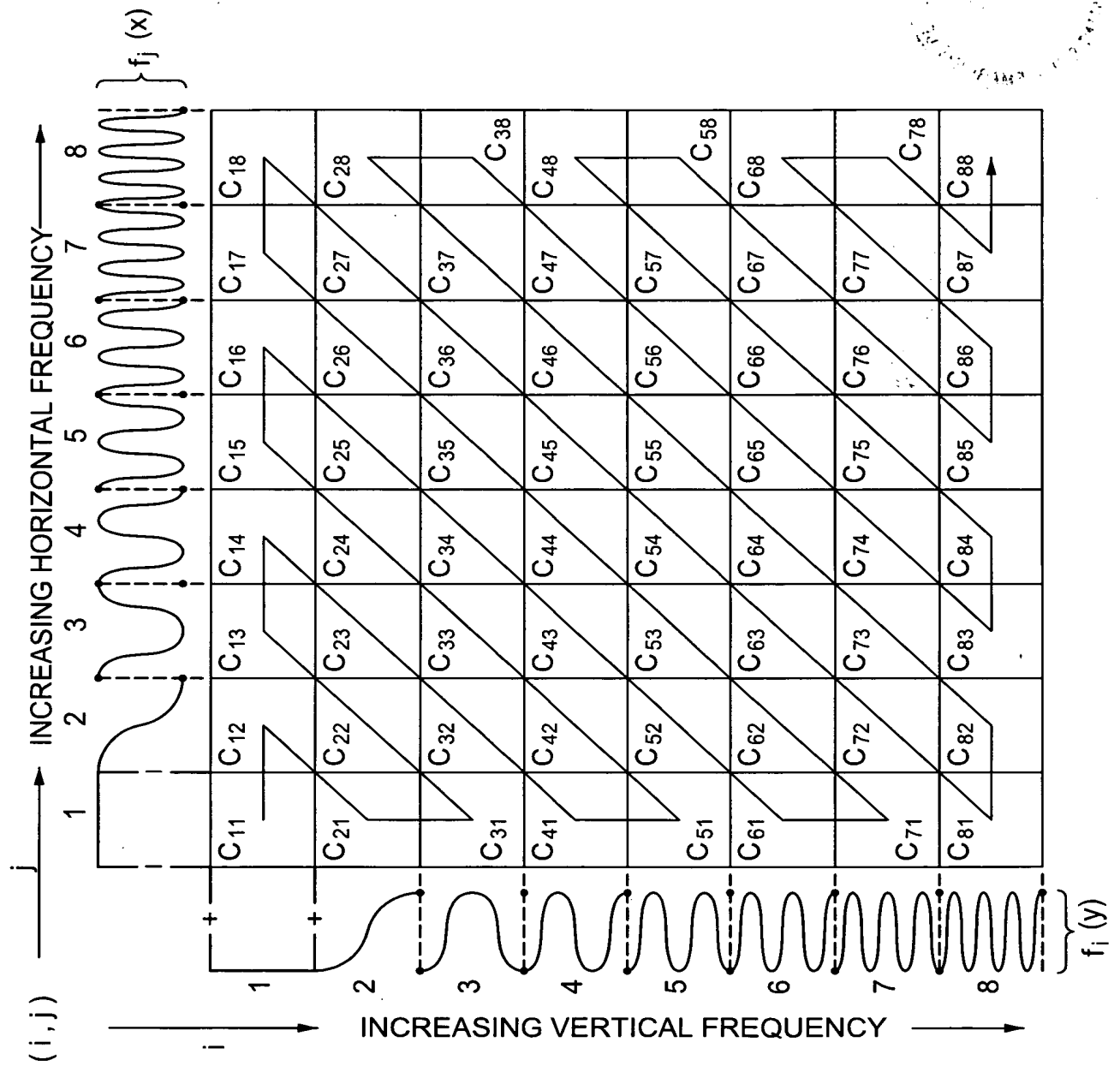


Fig. 11
(PRIOR ART)

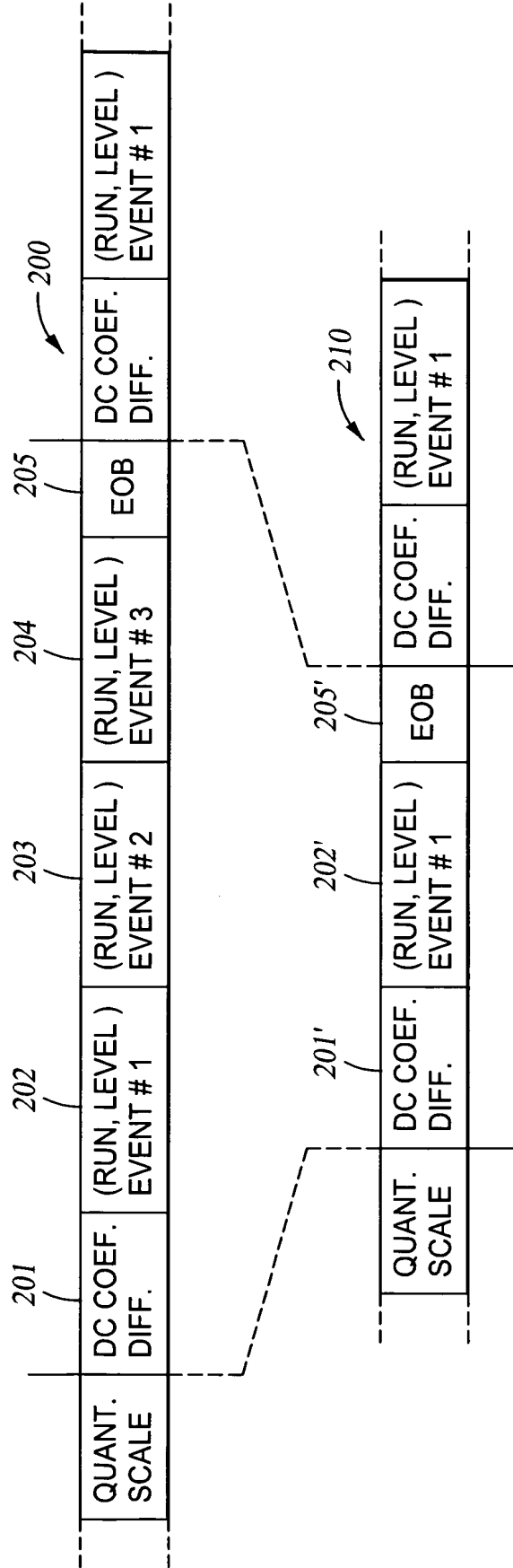


Fig. 12

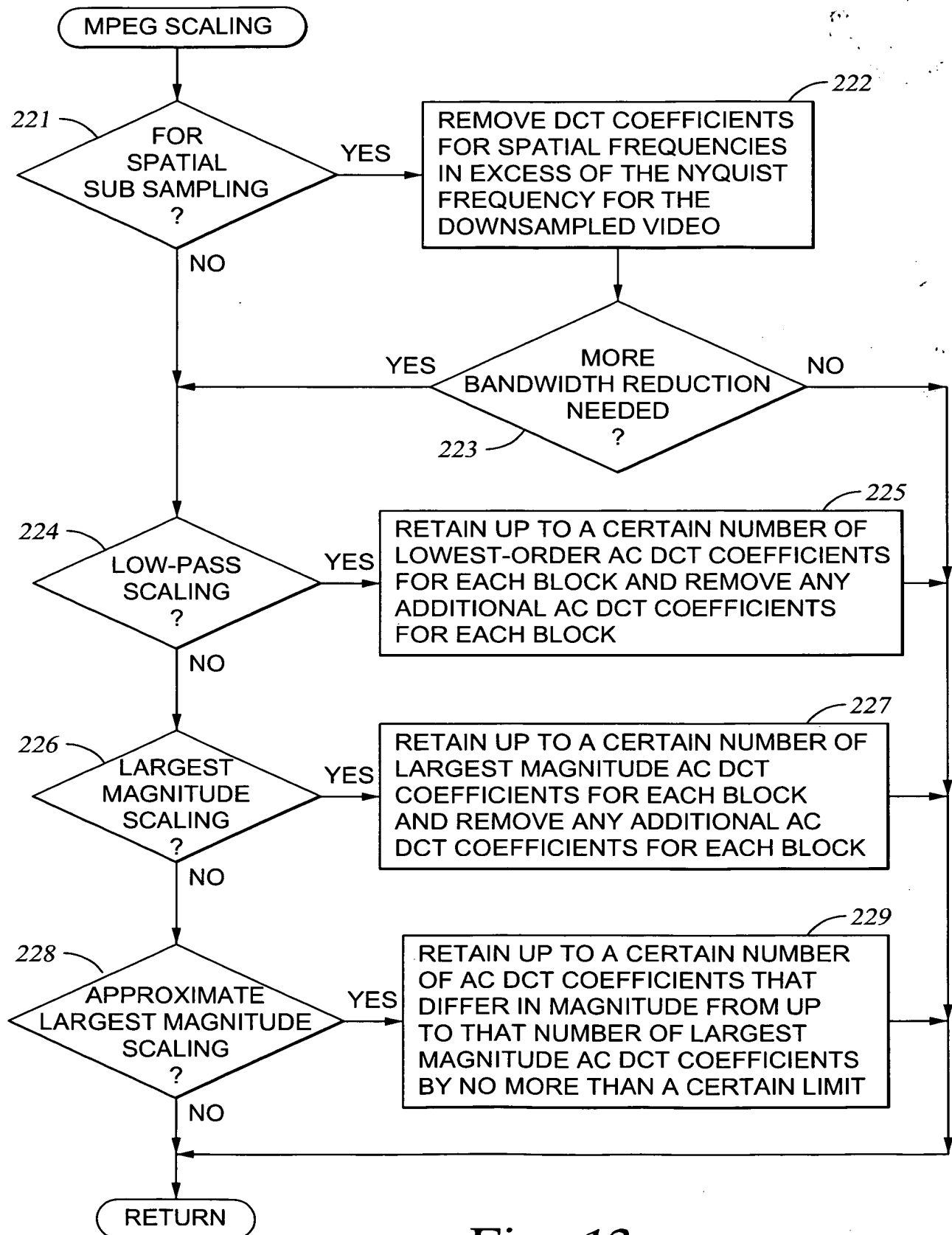


Fig. 13

12/39

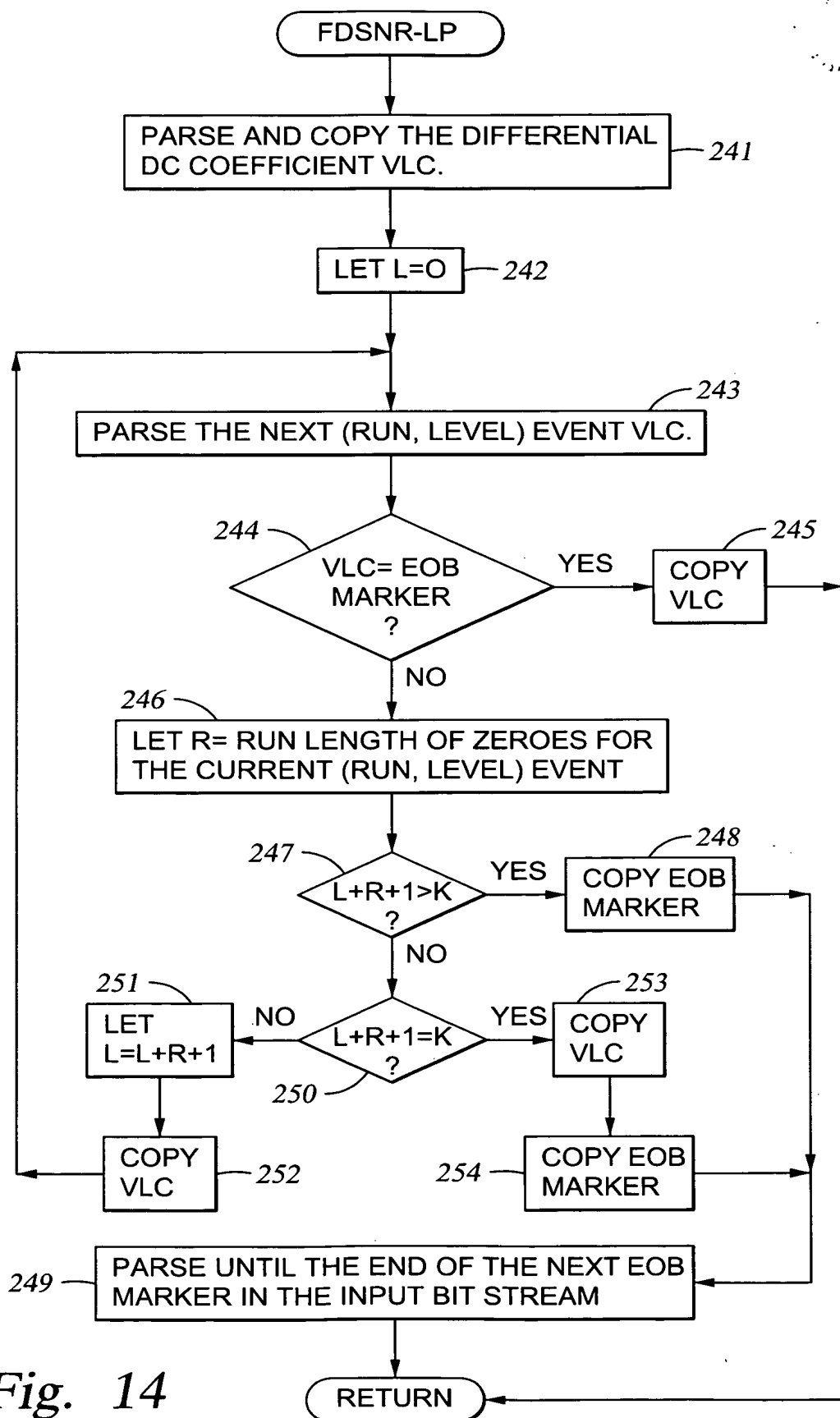
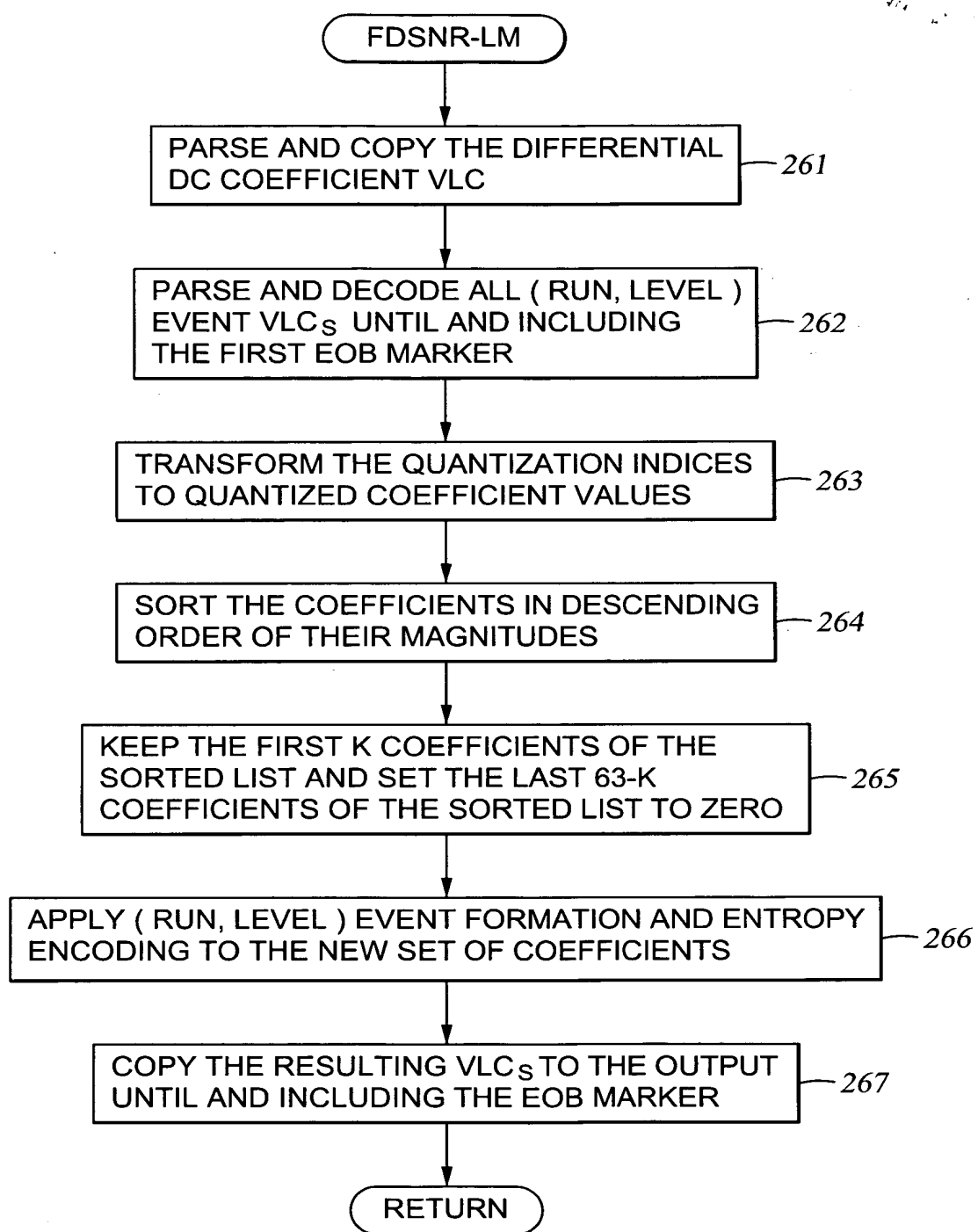


Fig. 14

*Fig. 15*

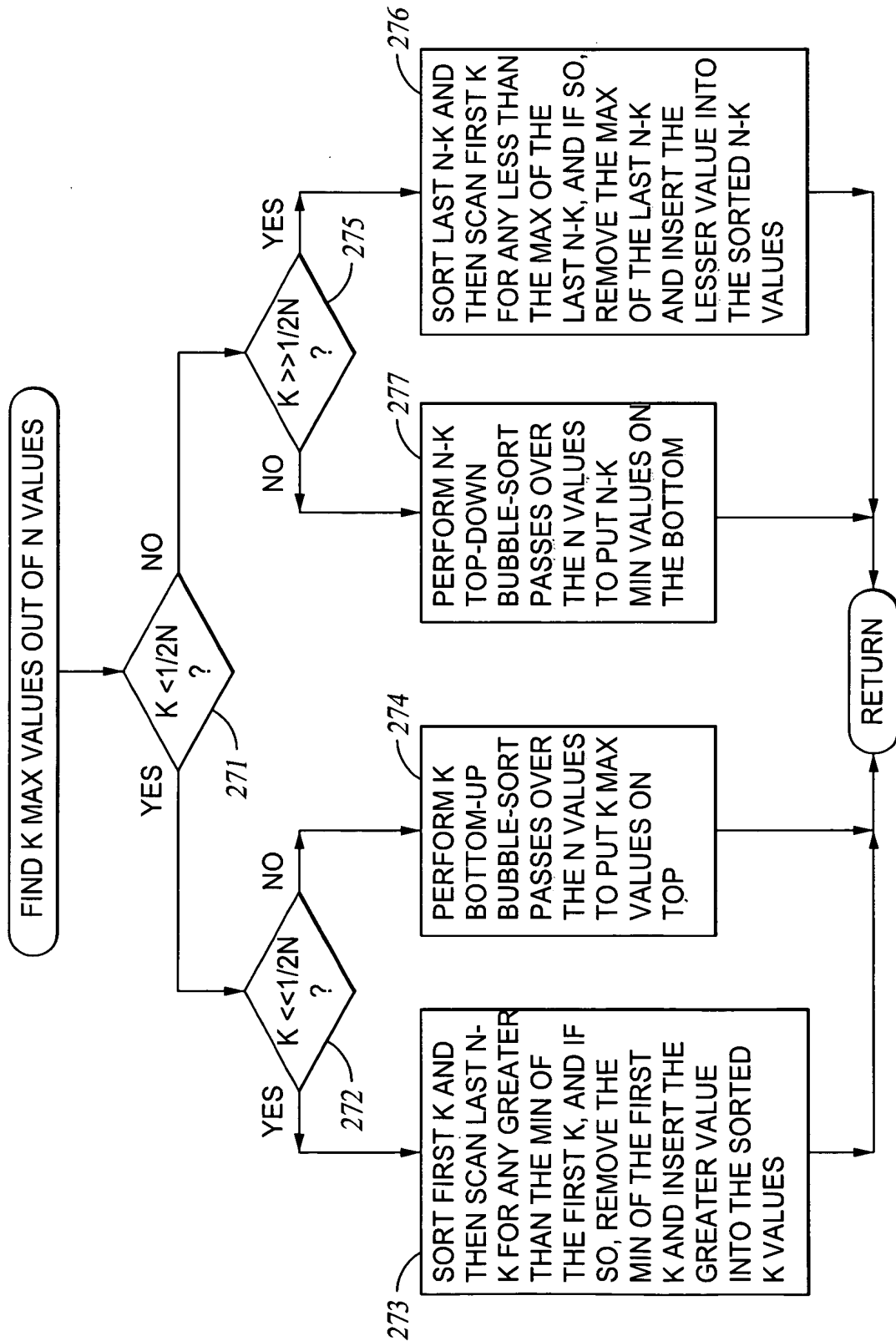


Fig. 16

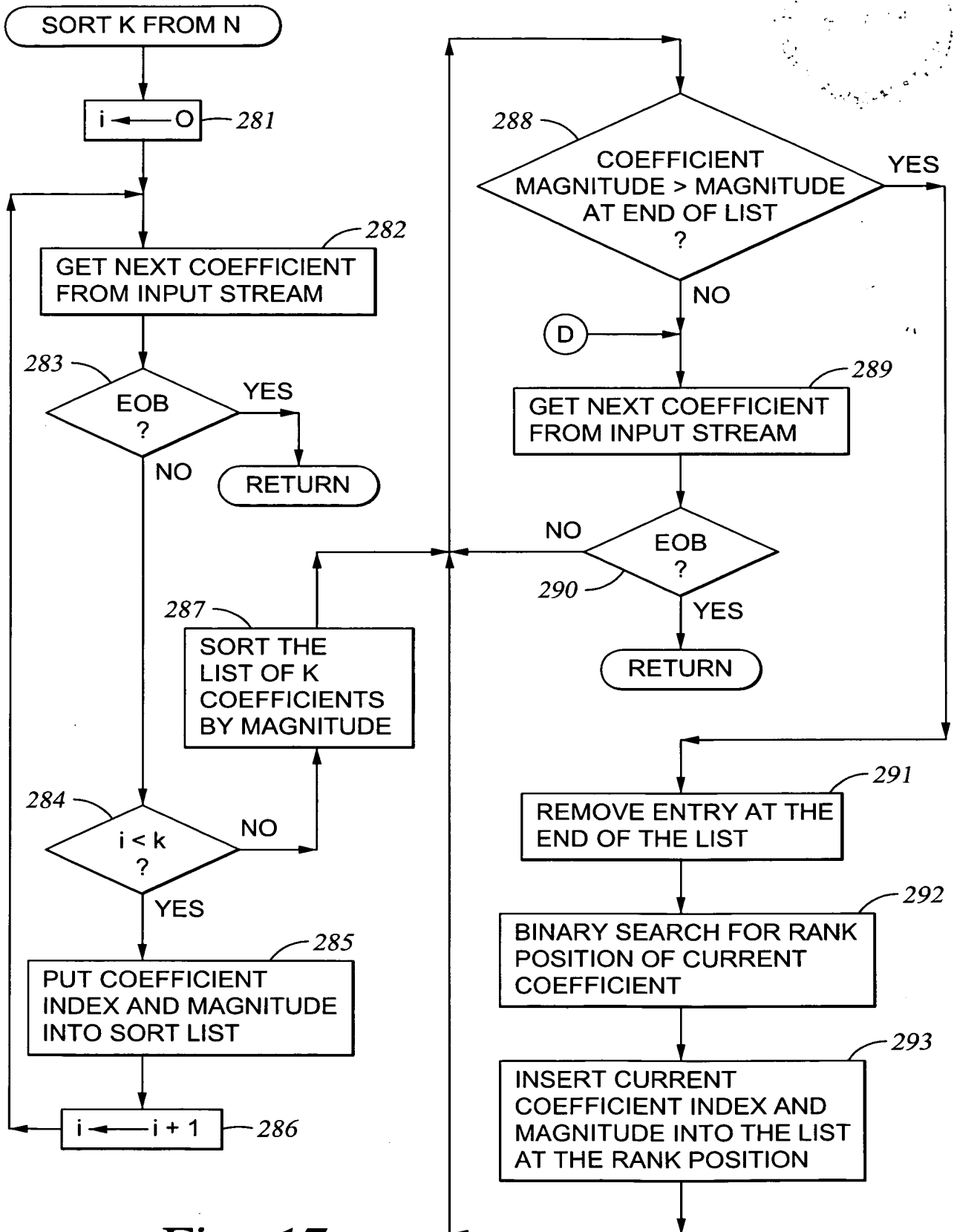


Fig. 17

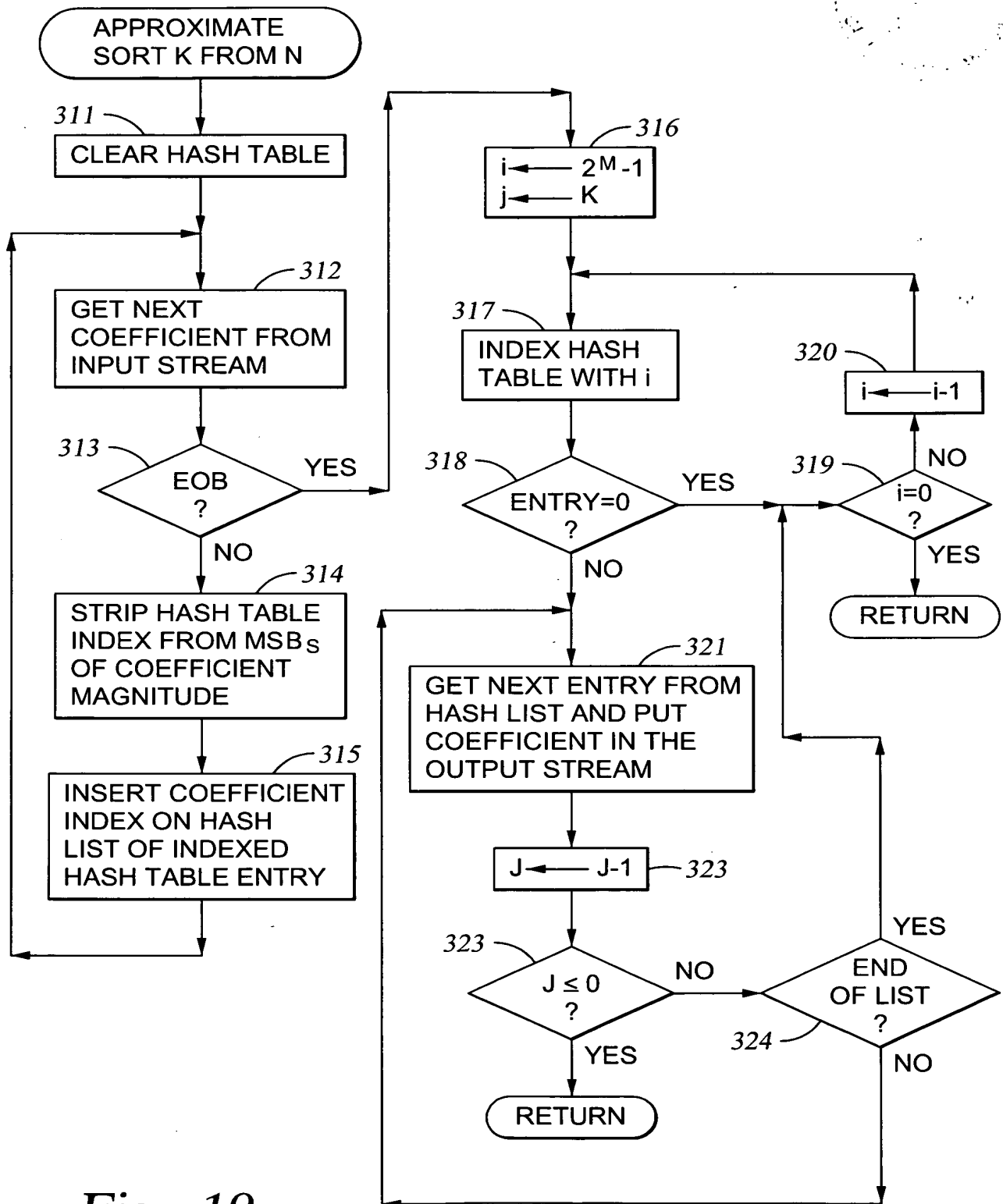


Fig. 19

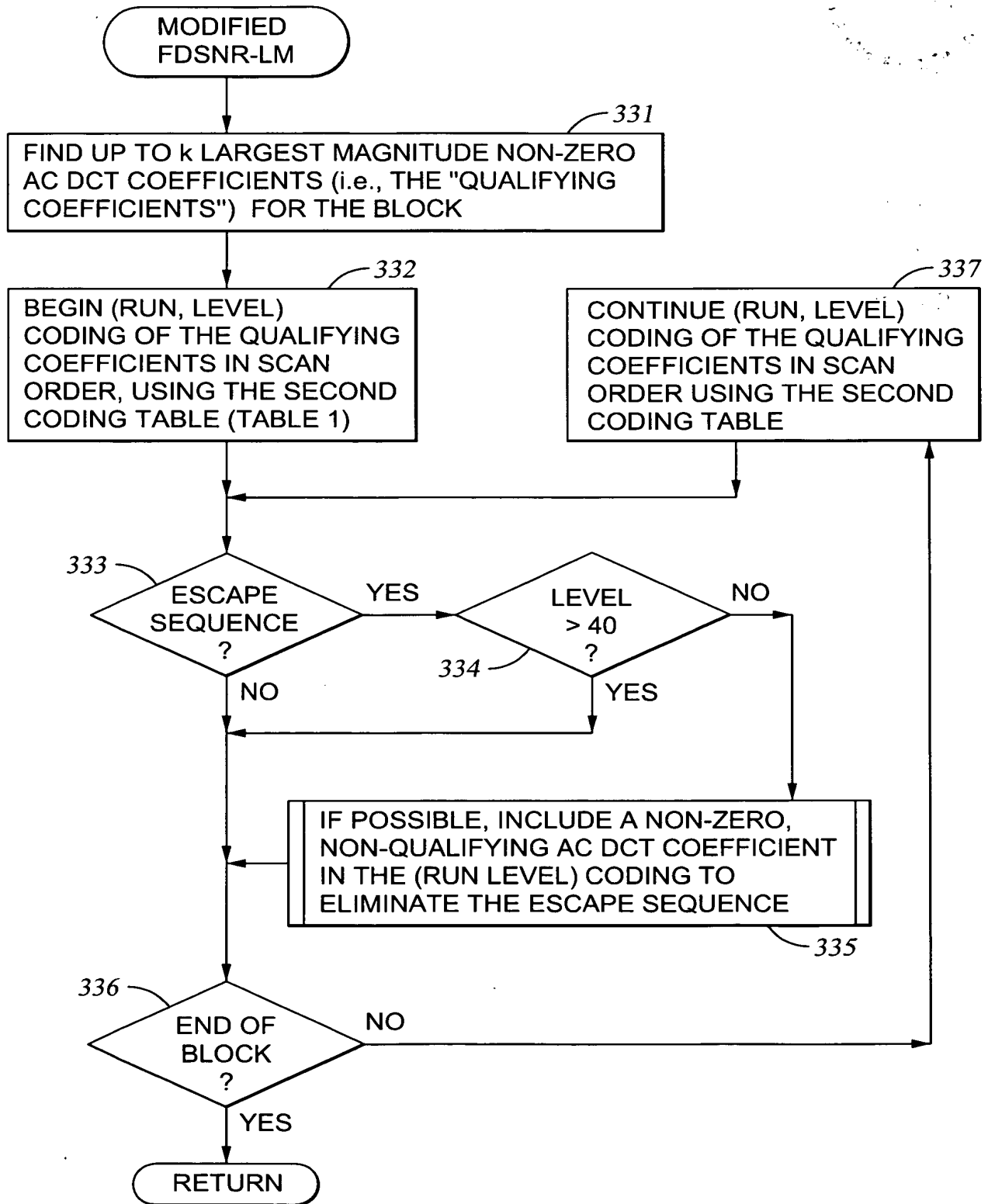


Fig. 20

Fig. 21

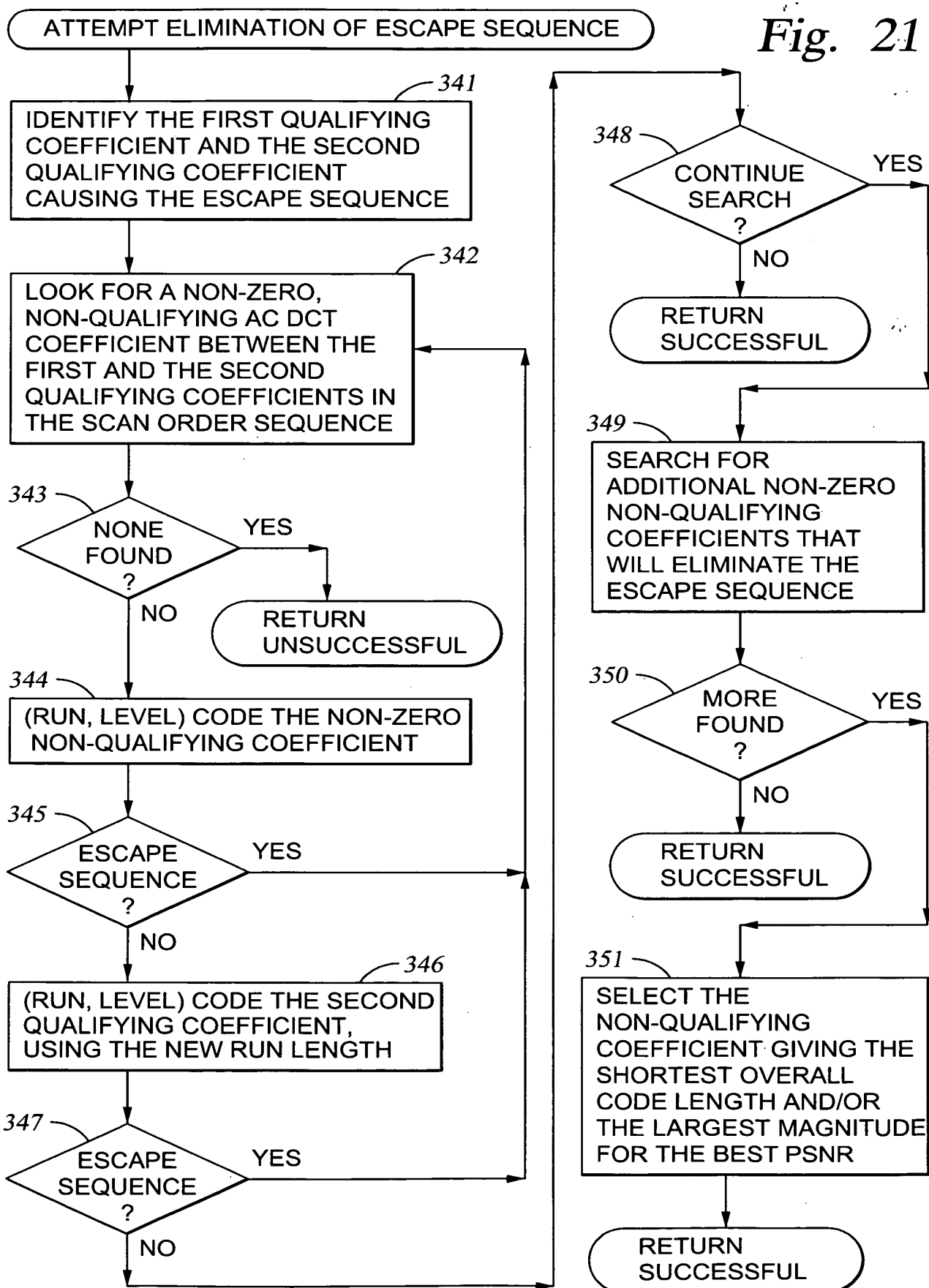


Fig. 22

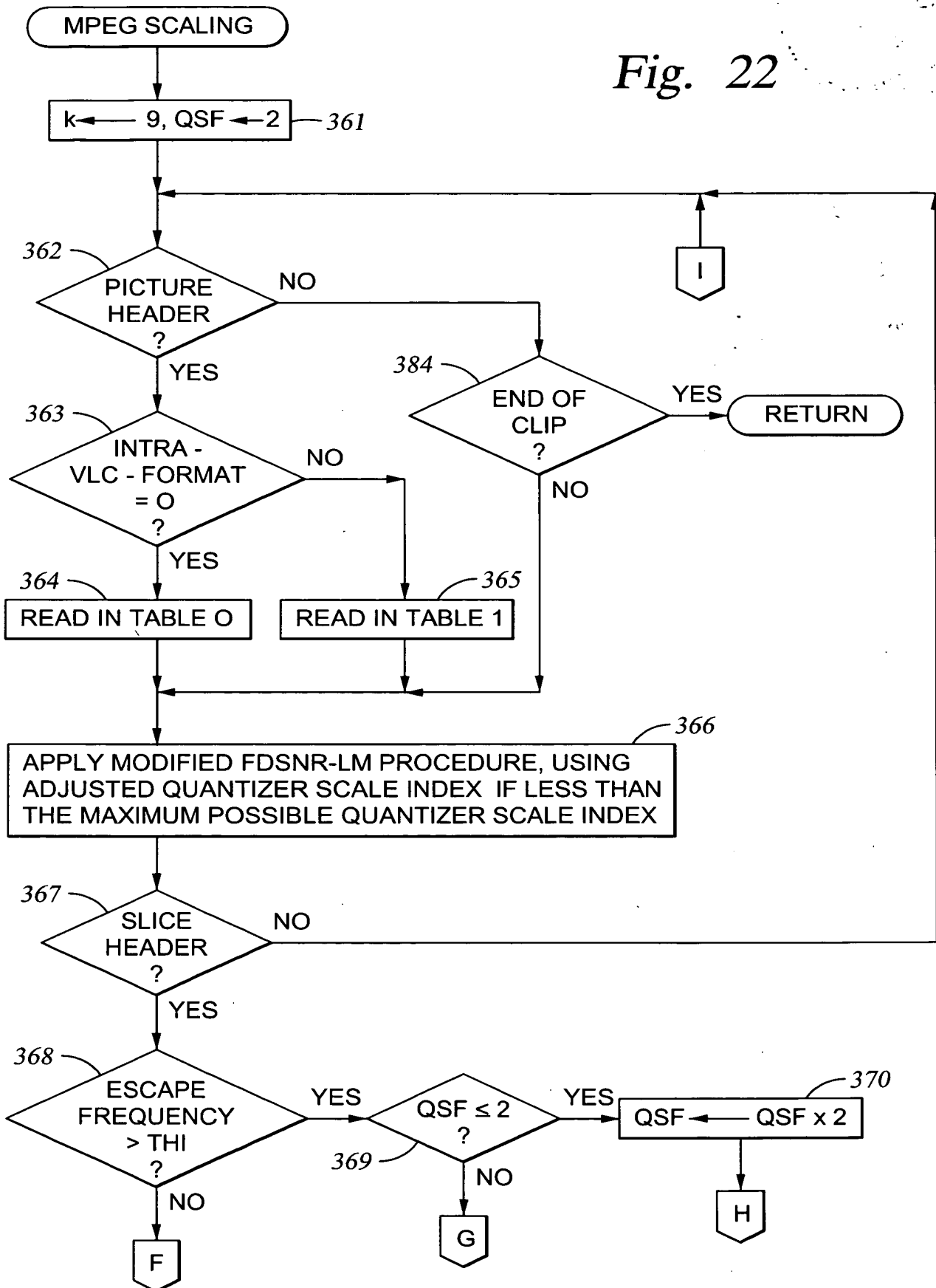
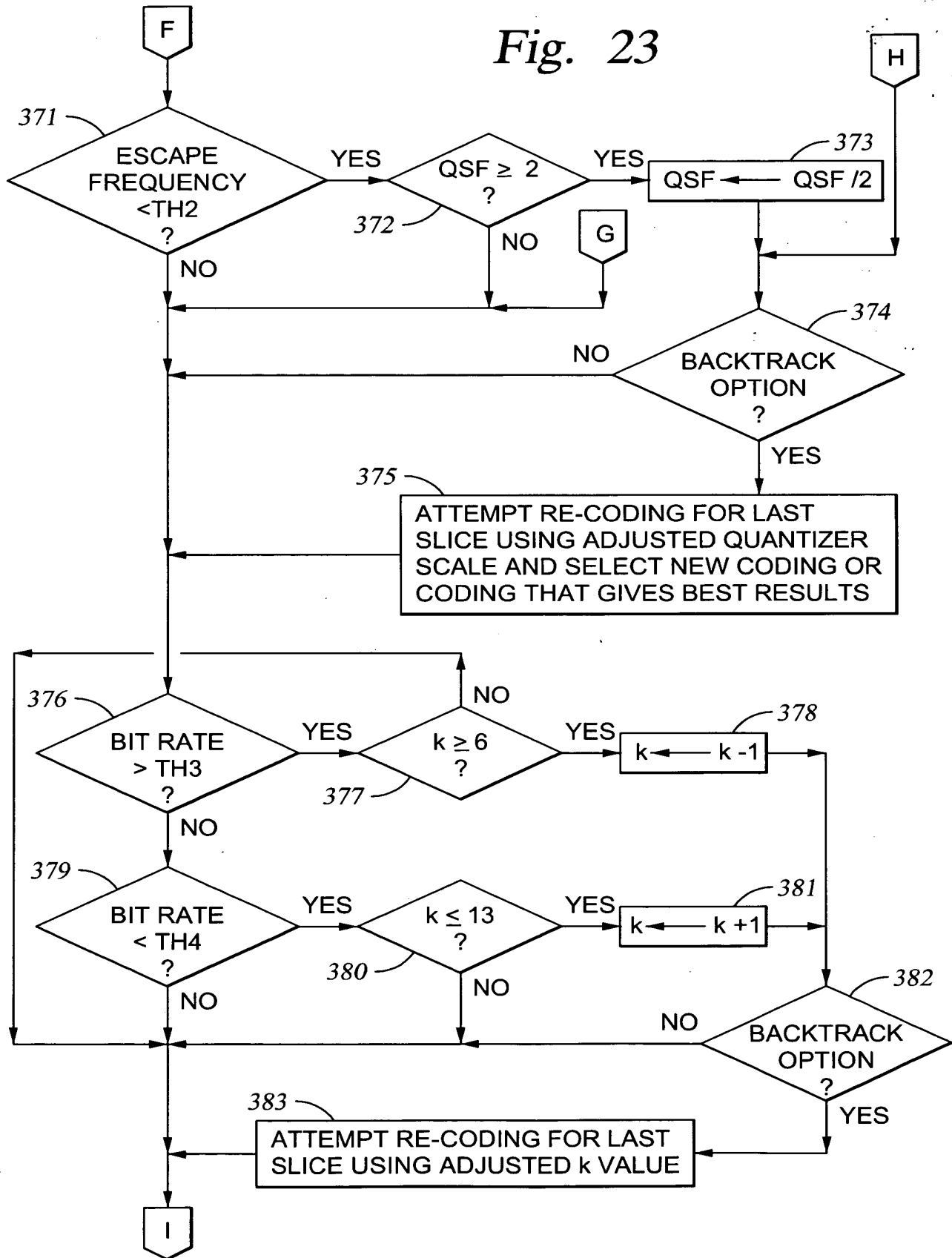


Fig. 23



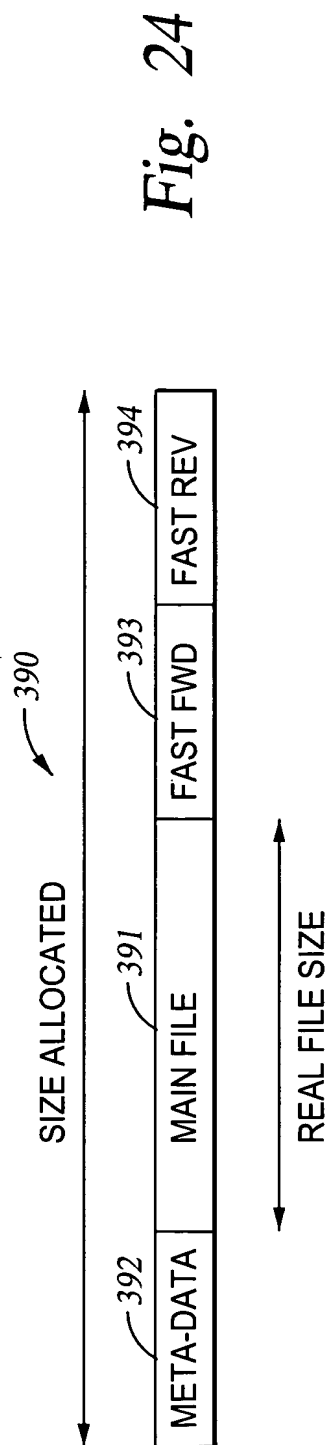


Fig. 24

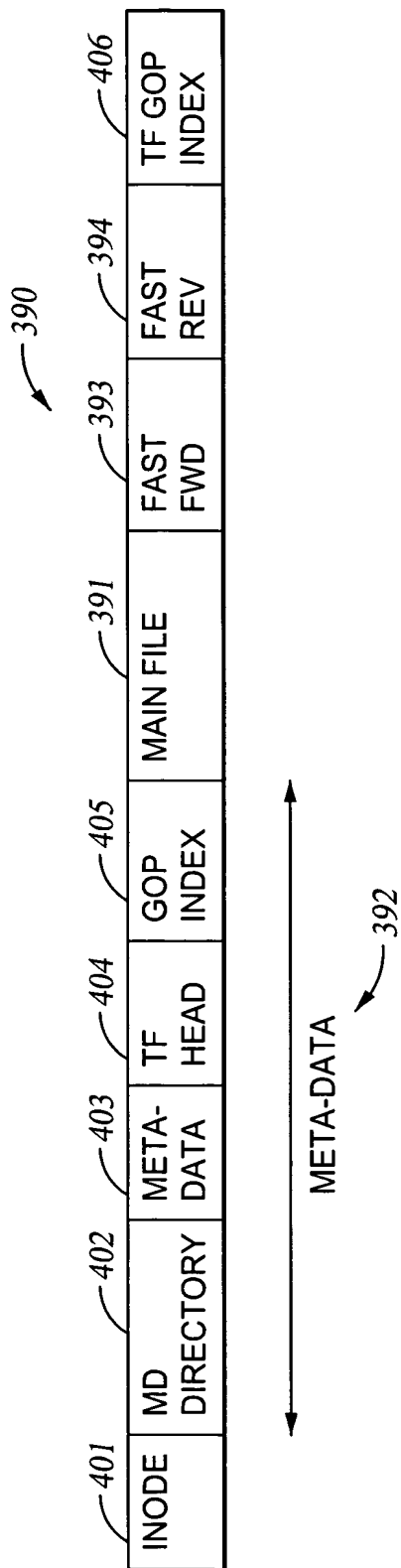


Fig. 25

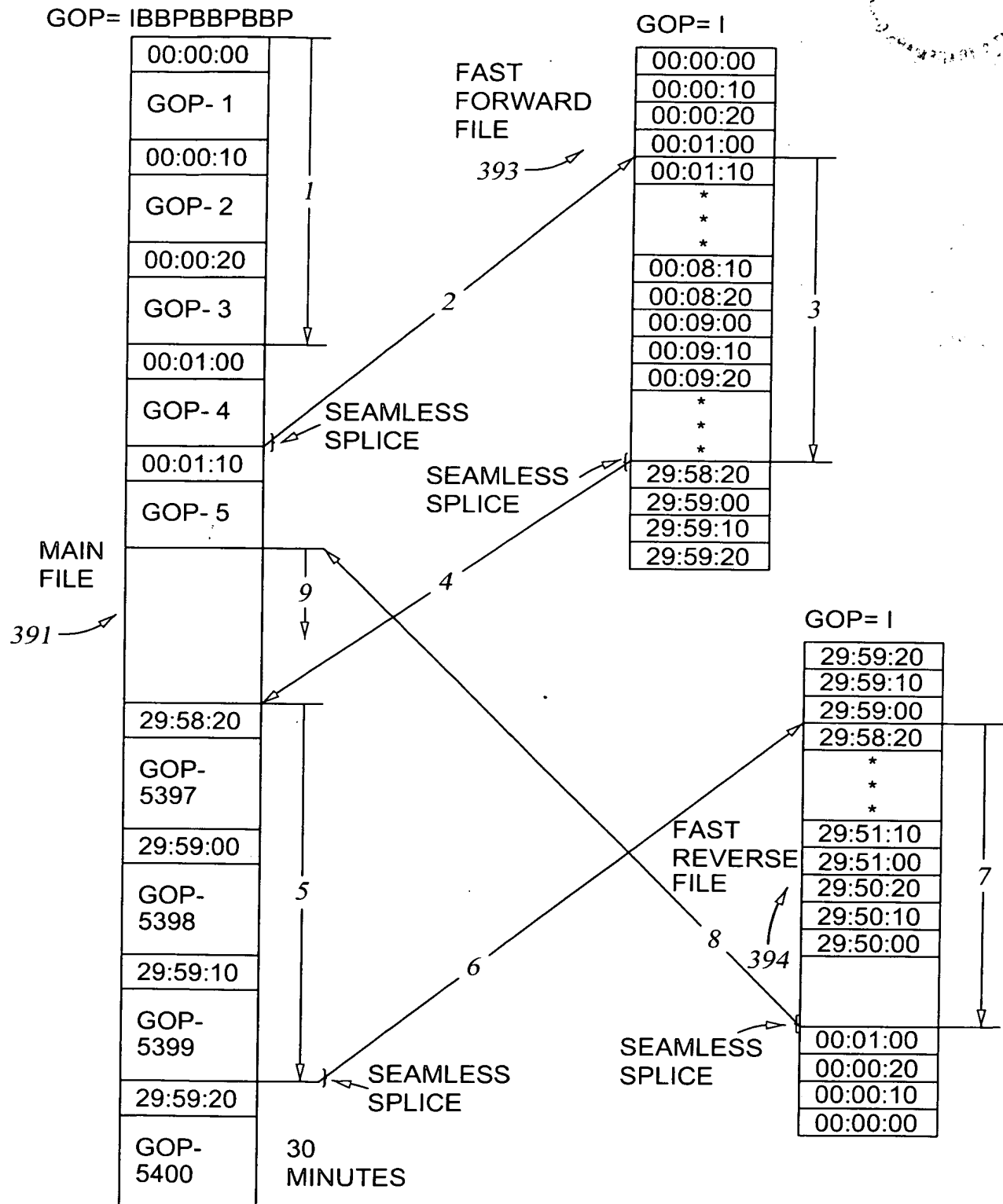
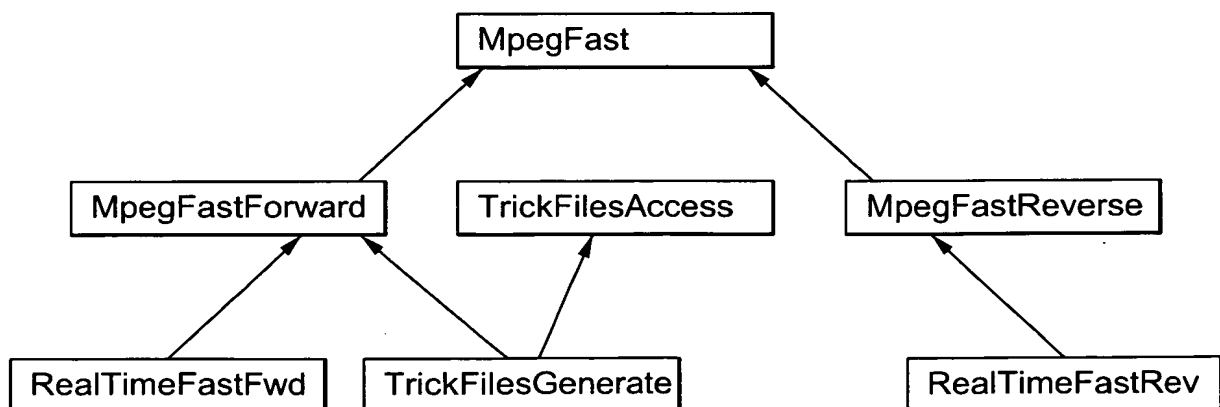


Fig. 26A

Fig. 26B

- 1- Play from start 1 sec
- 2- Pause
- 3- Fast Forward to 29 min
- 4- Pause
- 5- Play 1 sec
- 6- Pause
- 7- Fast Reverse to 1 sec
- 8- Pause
- 9- Play Normal

	READ	WRITE
COPY OF THE ASSET WITH ALL THE DATA	EMPEG2	EMPEG2
COPY ONLY THE MAIN ASSET	RAW	MPEG2
ARCHIVE	EMPEG2	EMPEG2
PLAY	MPEG2	
RECORD		MPEG2

Fig. 27*Fig. 28*

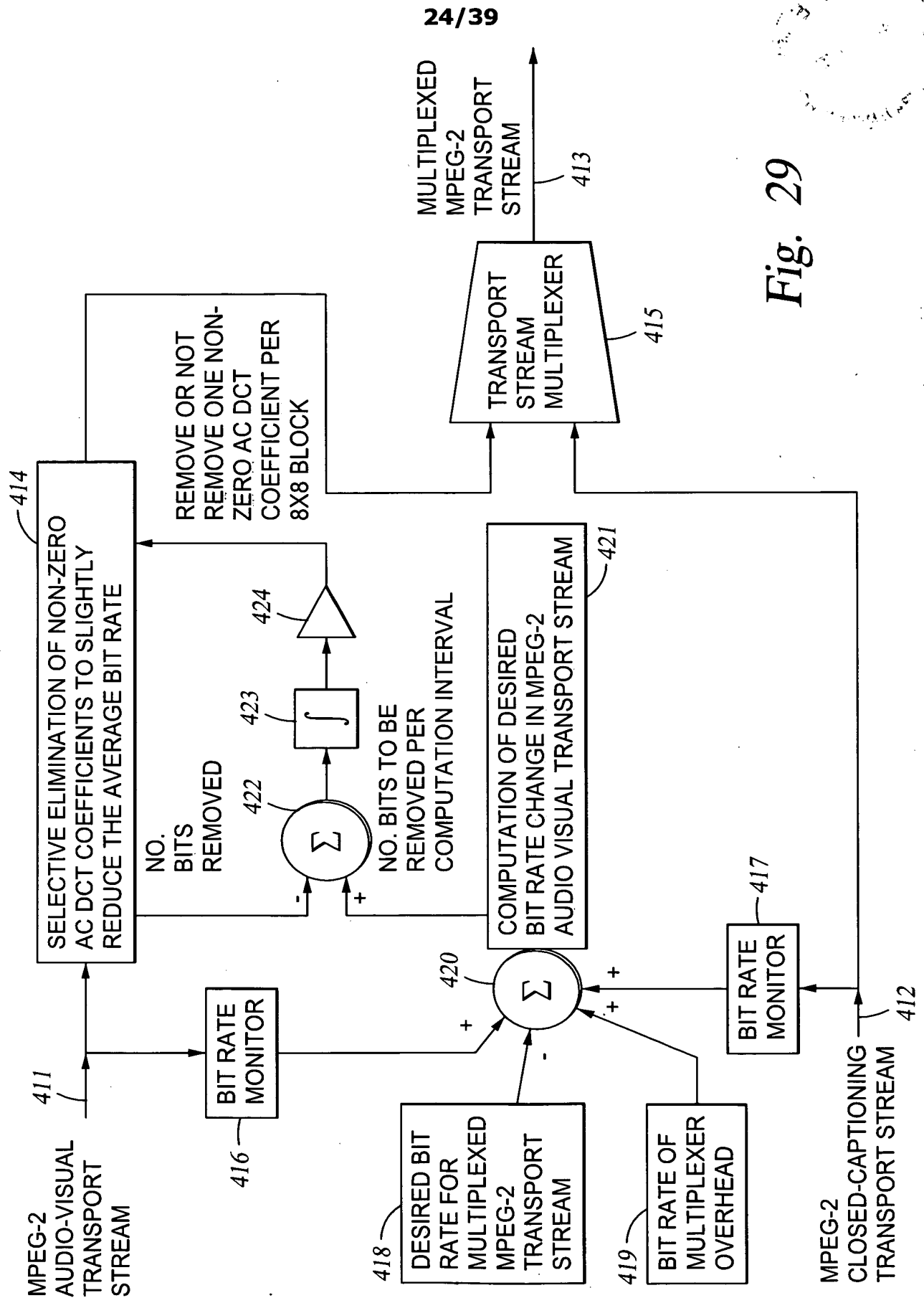
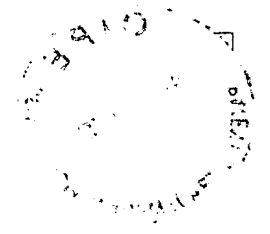
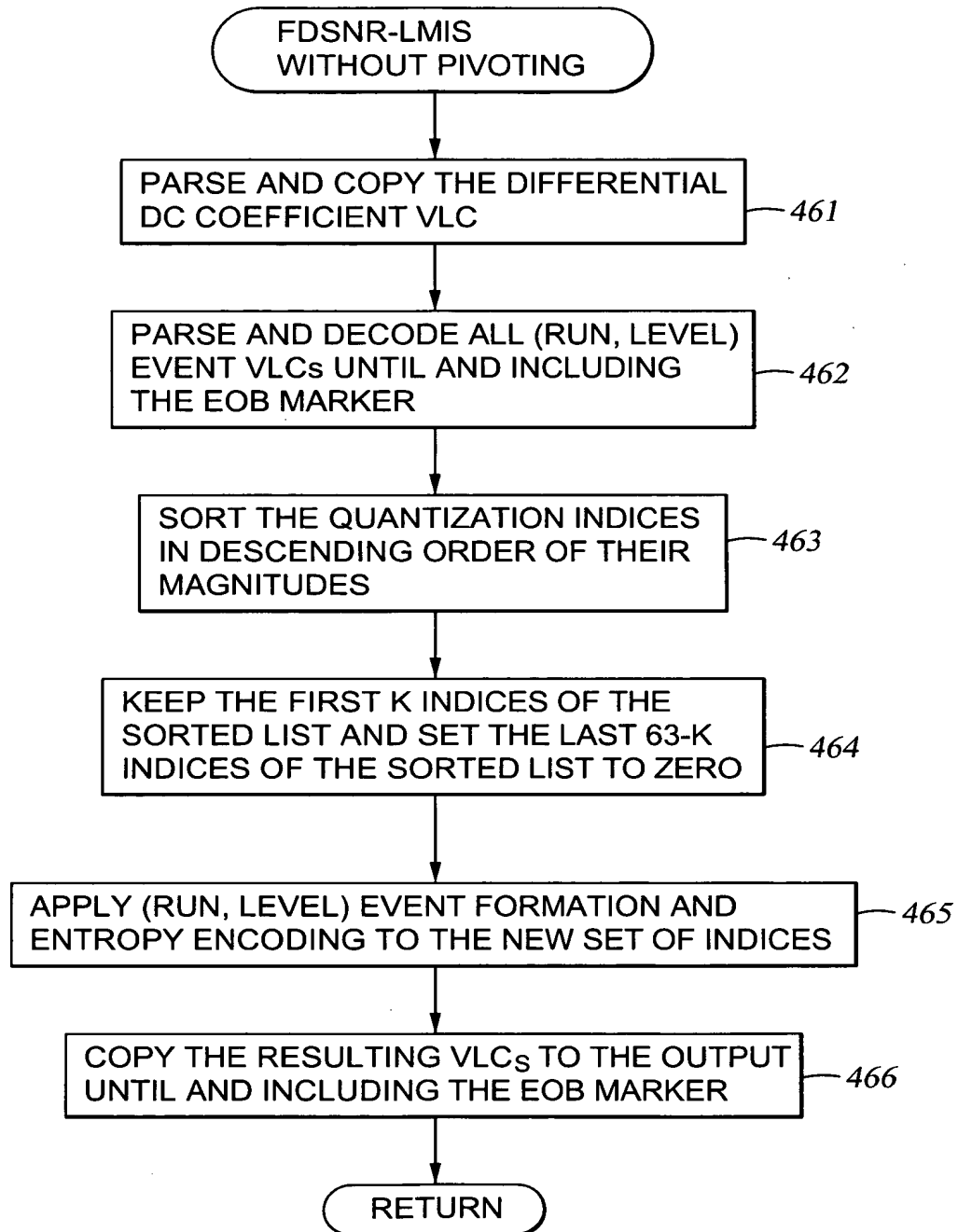
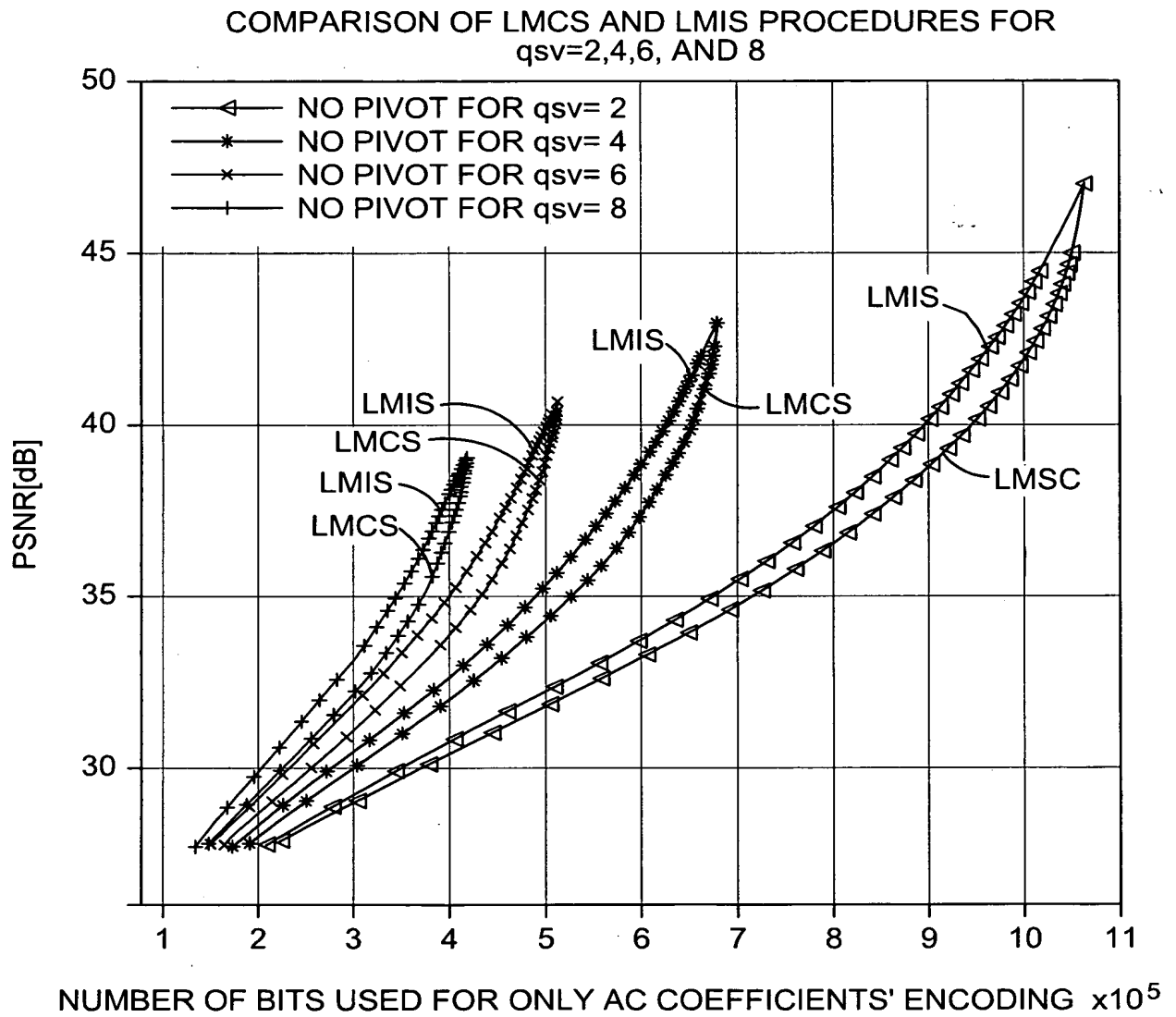
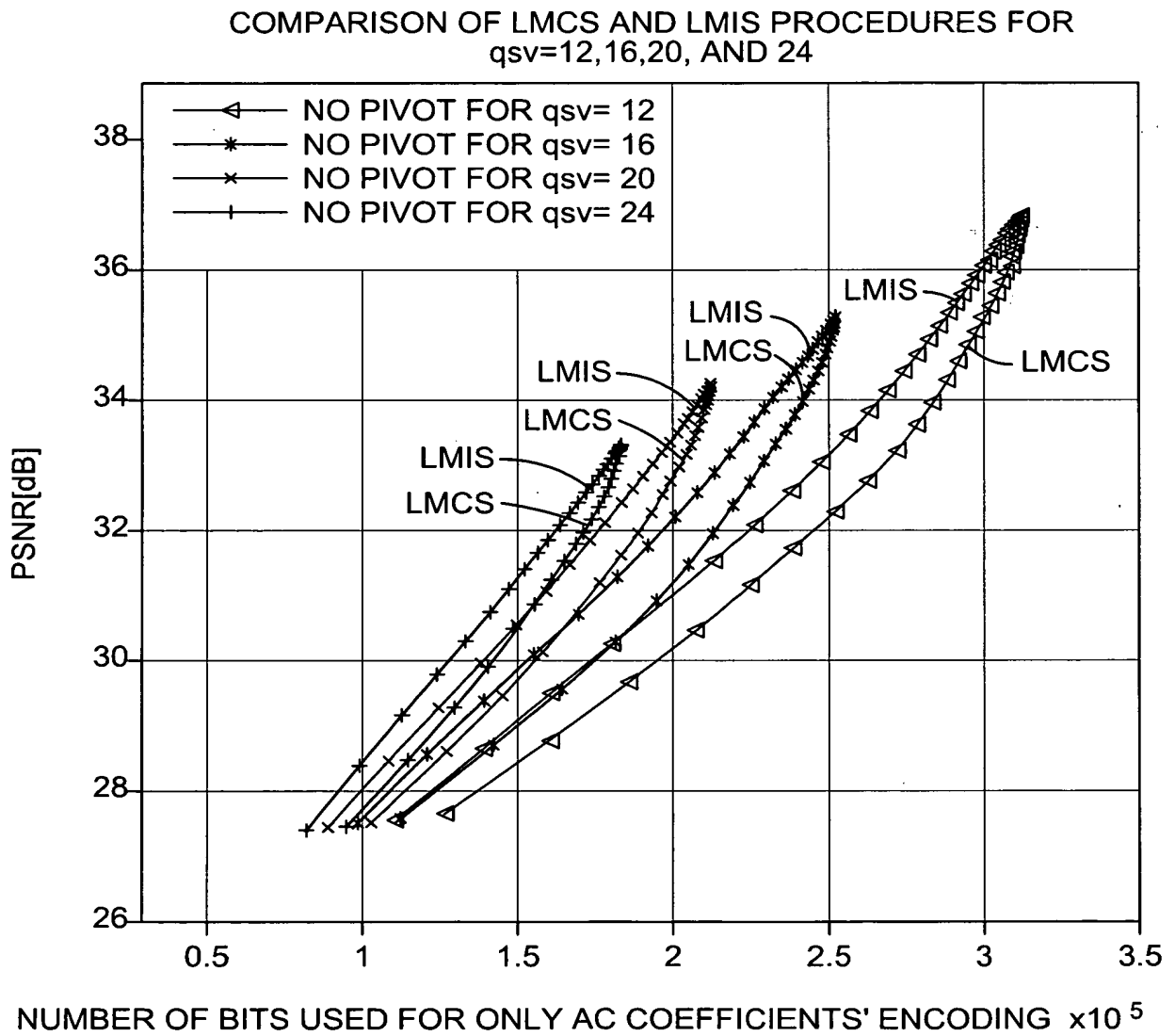
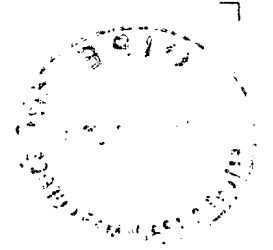


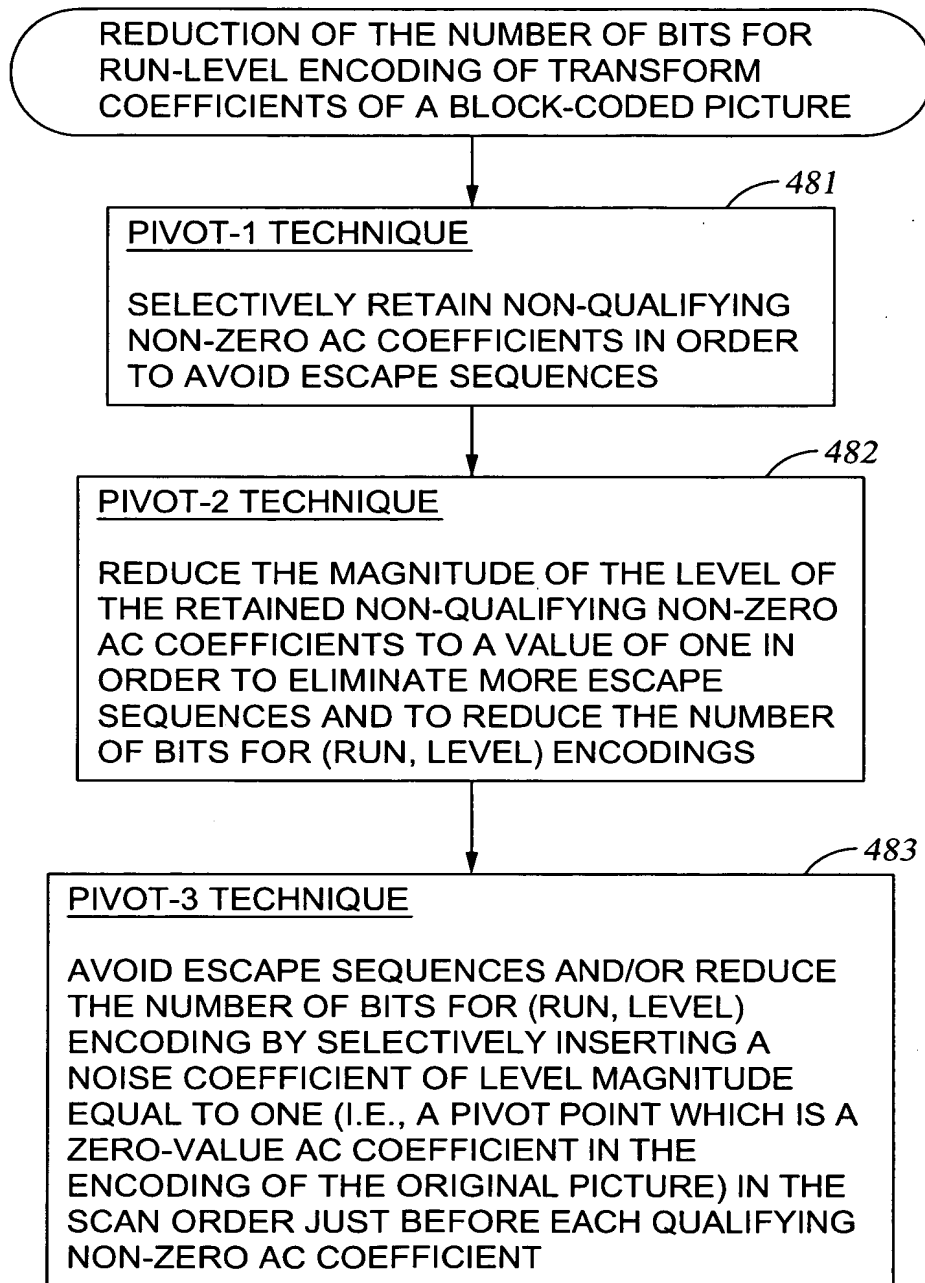
Fig. 29



*Fig. 30*

*Fig. 31*

*Fig. 32*

*Fig. 33*



THE EFFECT OF PIVOT TECHNIQUES ON THE ESCAPE
SEQUENCE COUNT GENERATED BY LMCS FOR $qsv=4$

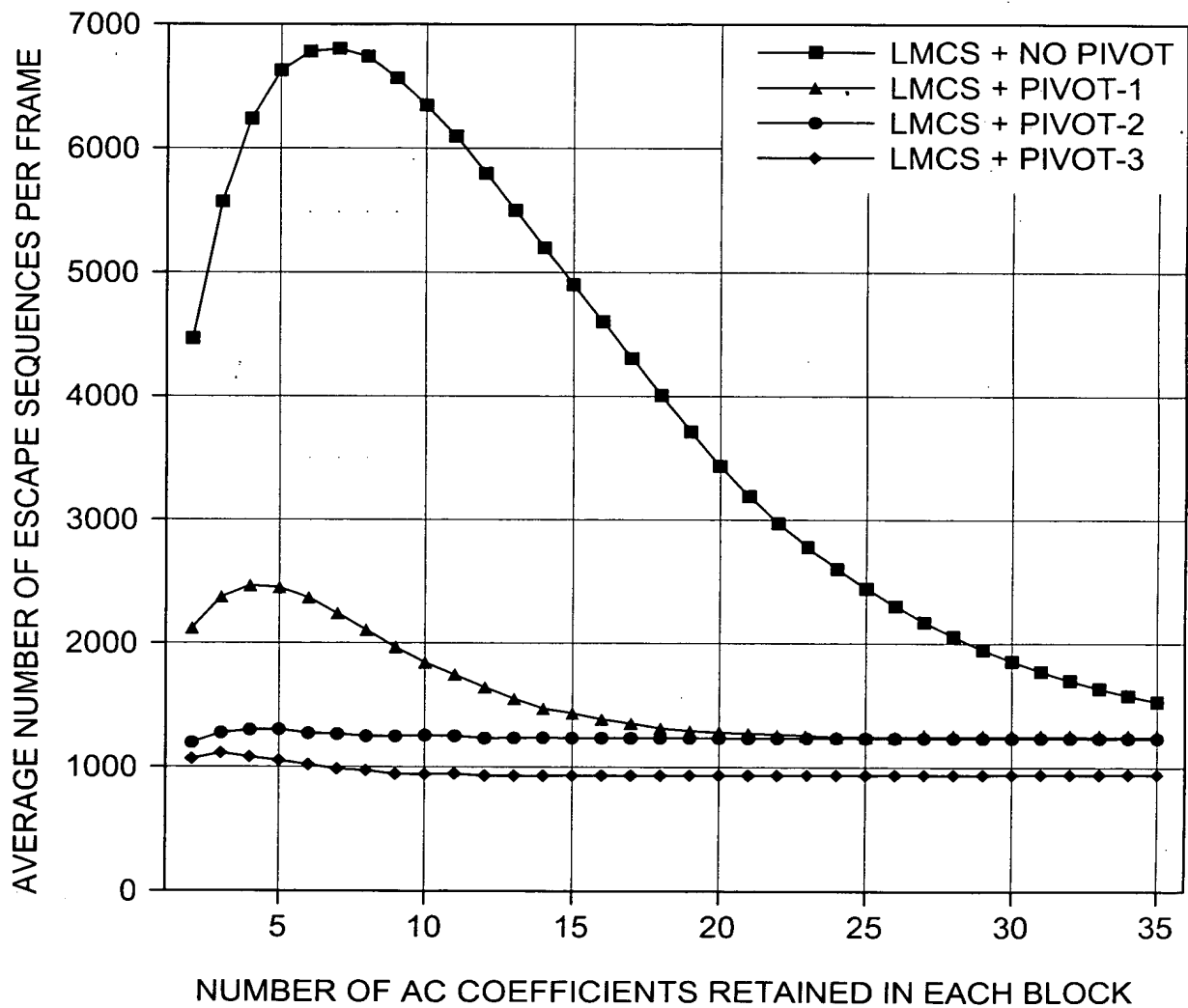
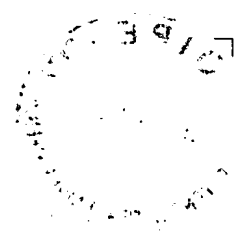


Fig. 34



THE EFFECT OF PIVOT TECHNIQUES ON THE ESCAPE
SEQUENCE COUNT GENERATED BY LMCS
FOR $qsv=24$

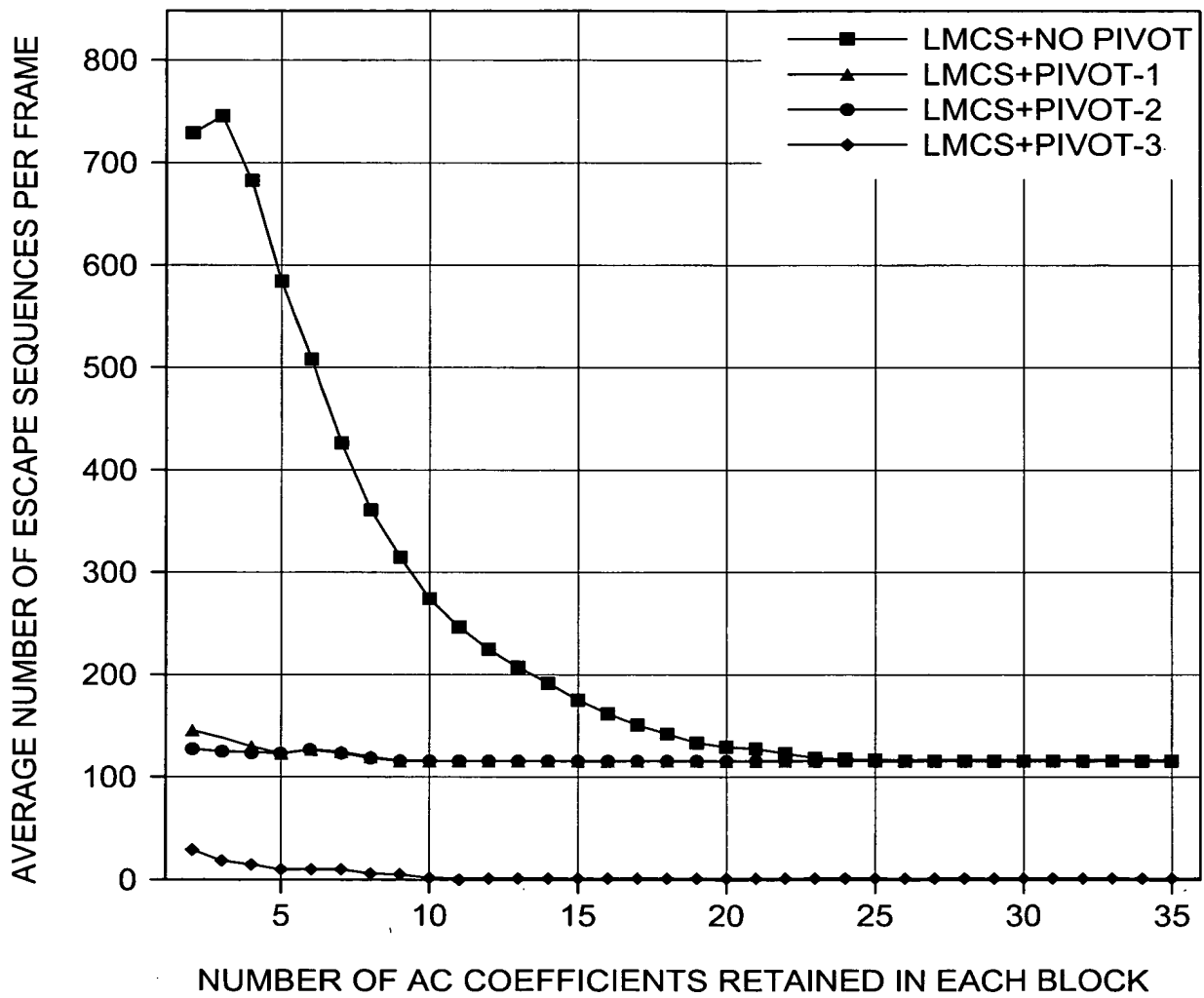


Fig. 35

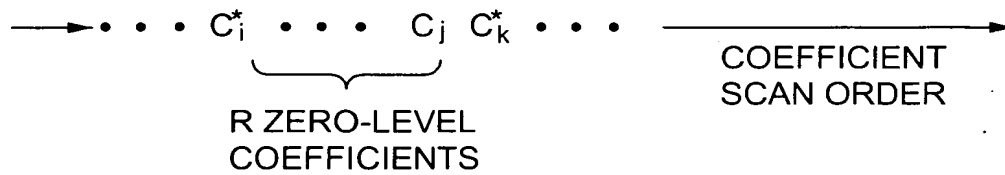
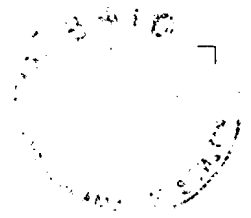


Fig. 36

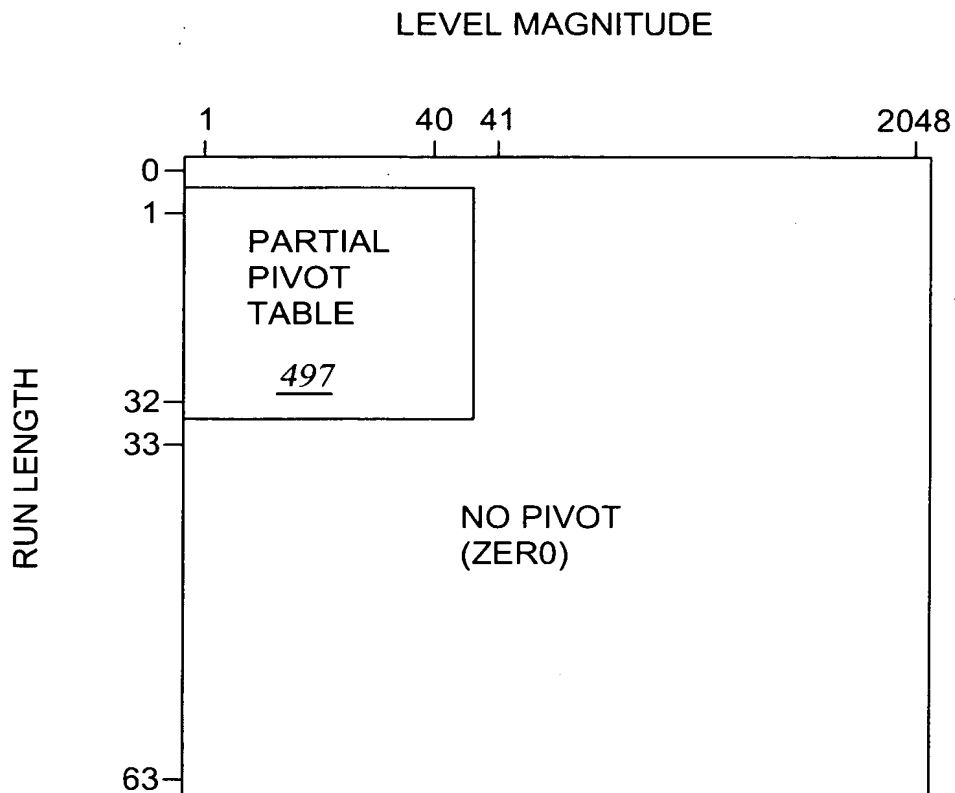
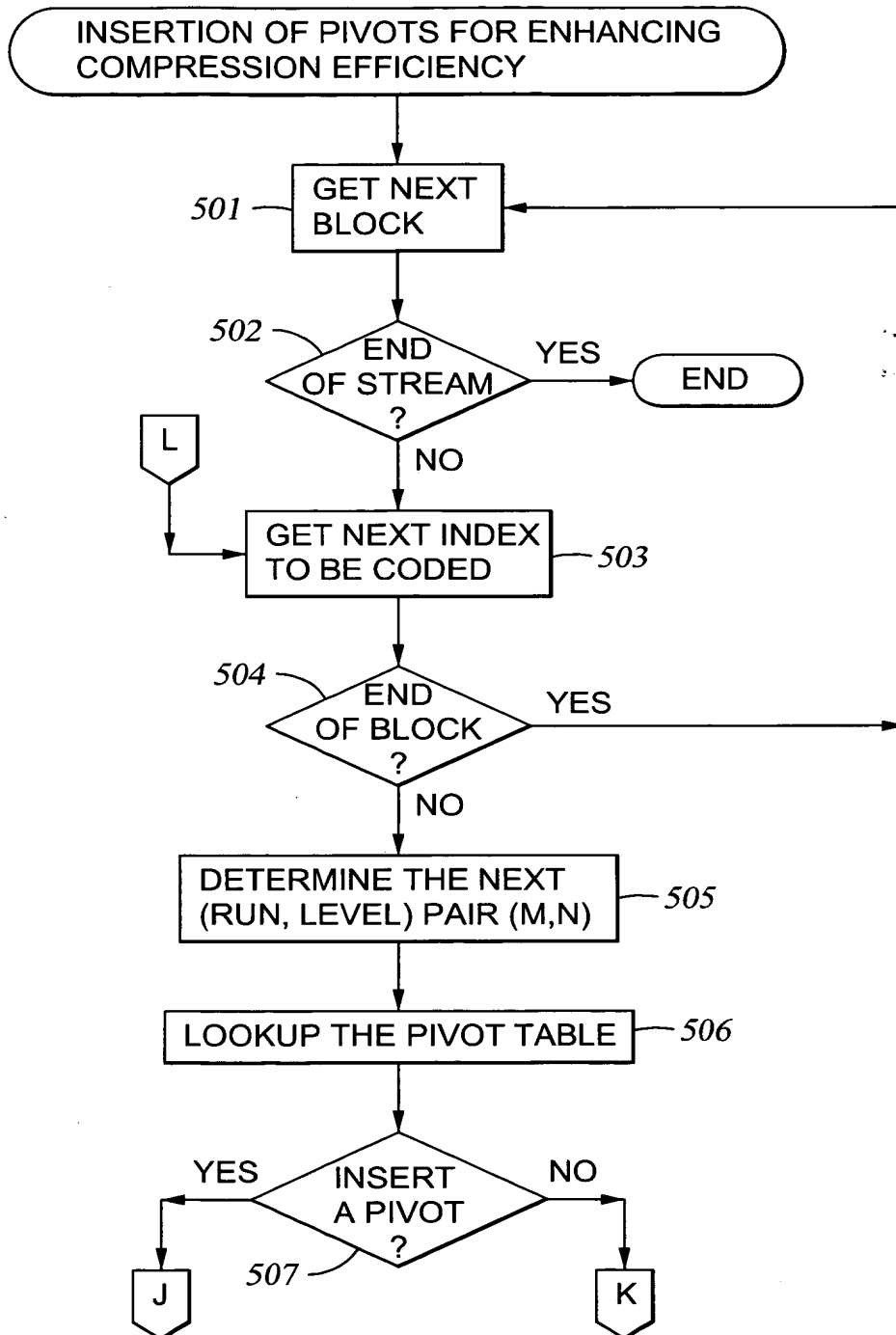
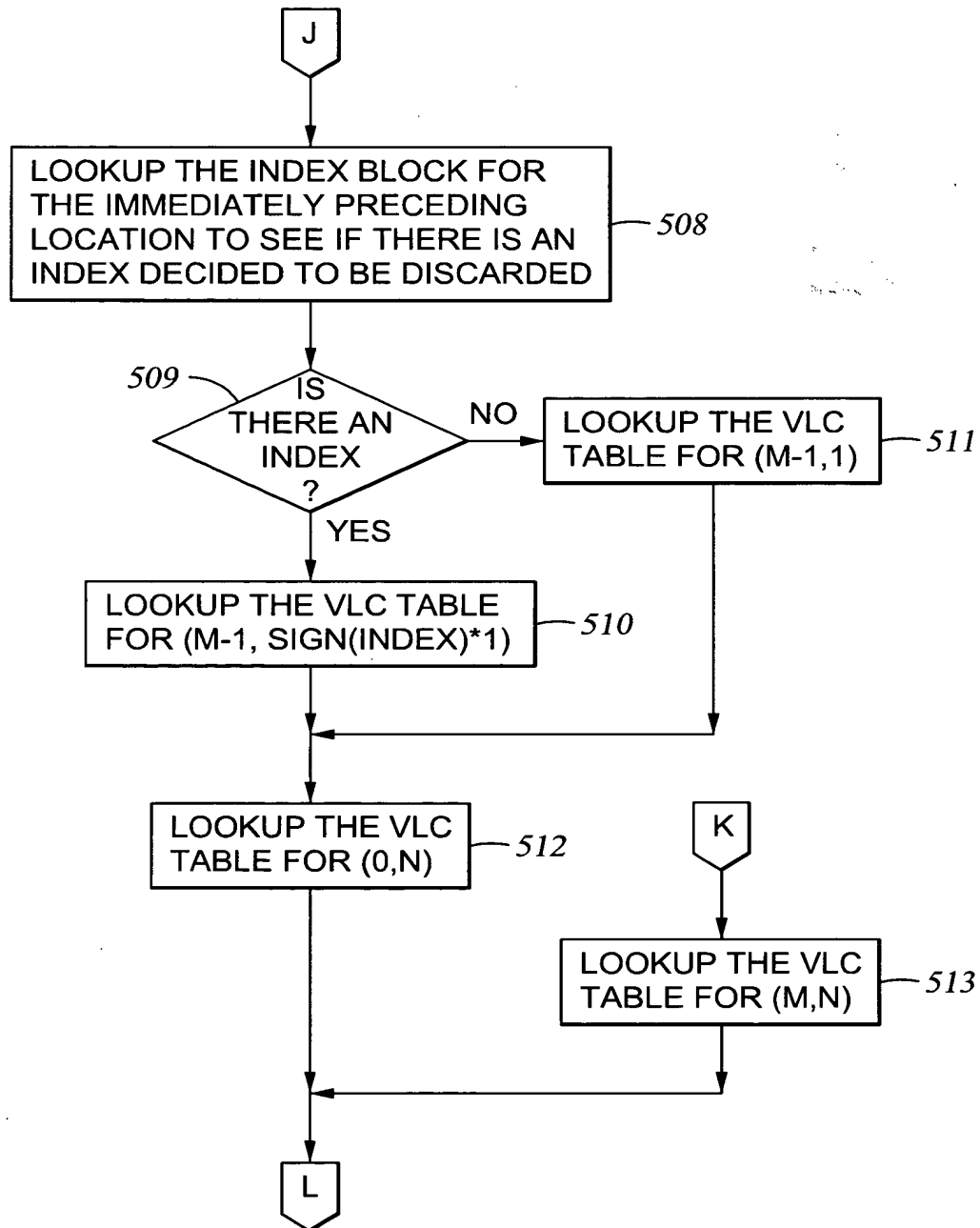


Fig. 37

*Fig. 38*

*Fig. 39*

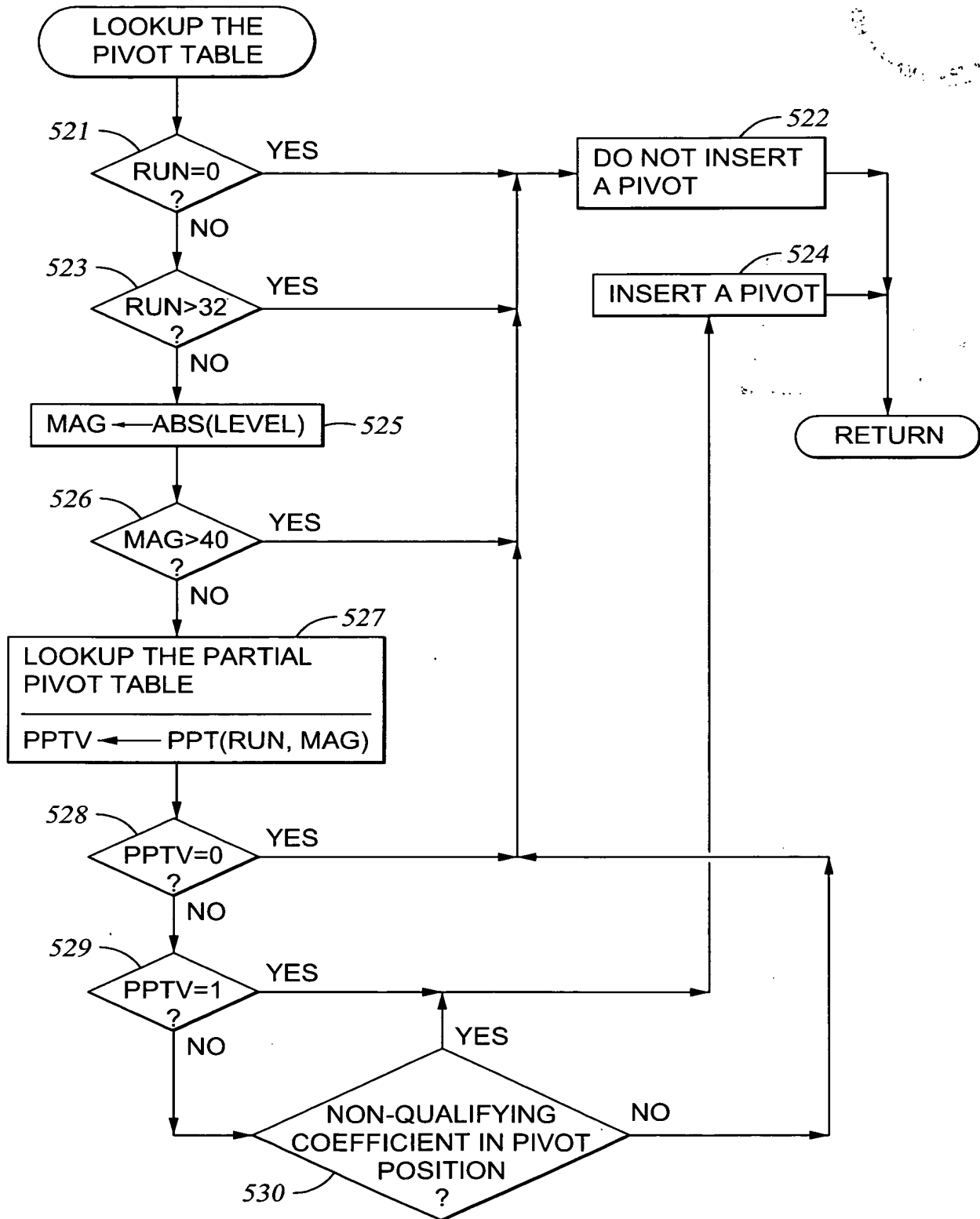
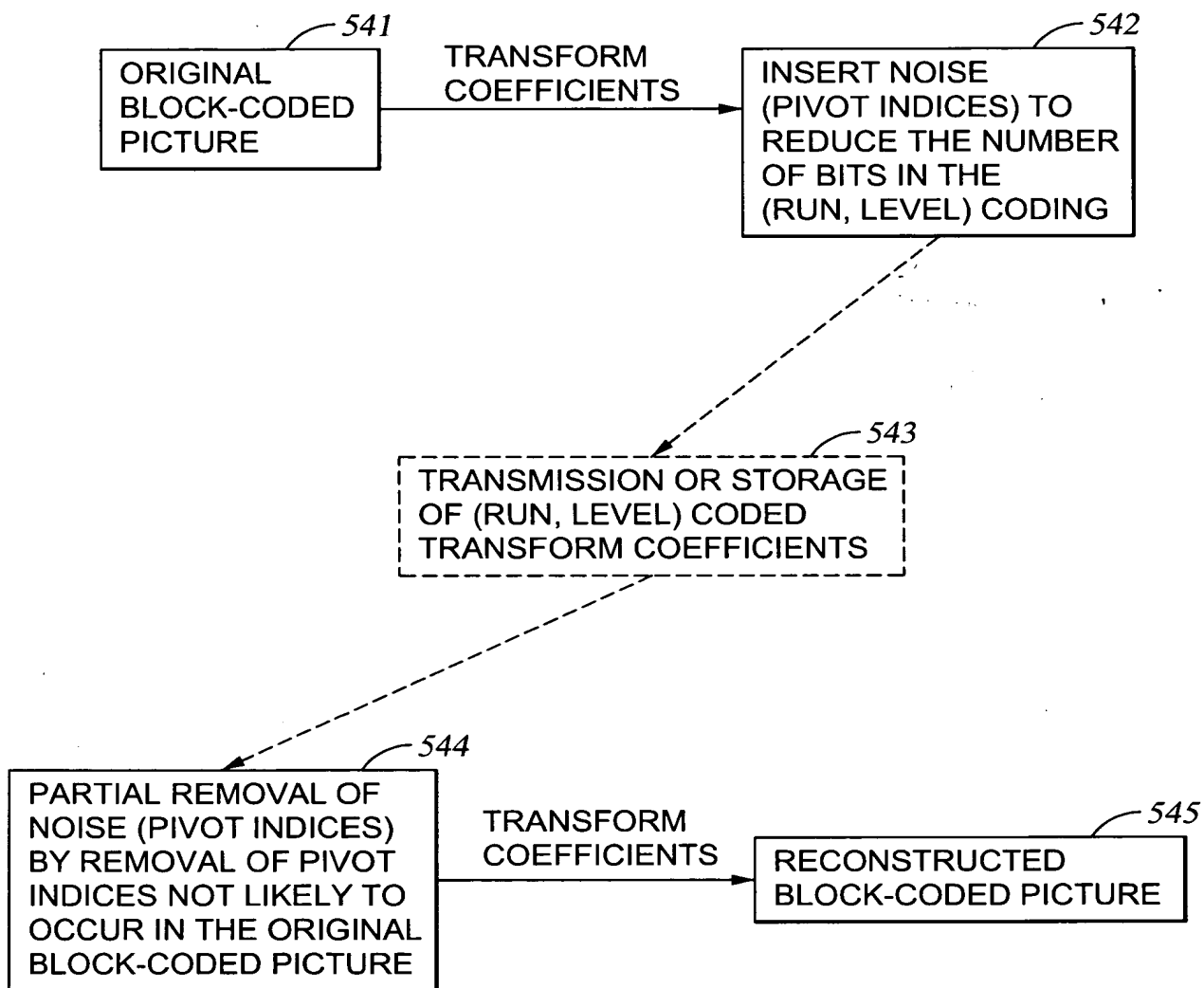
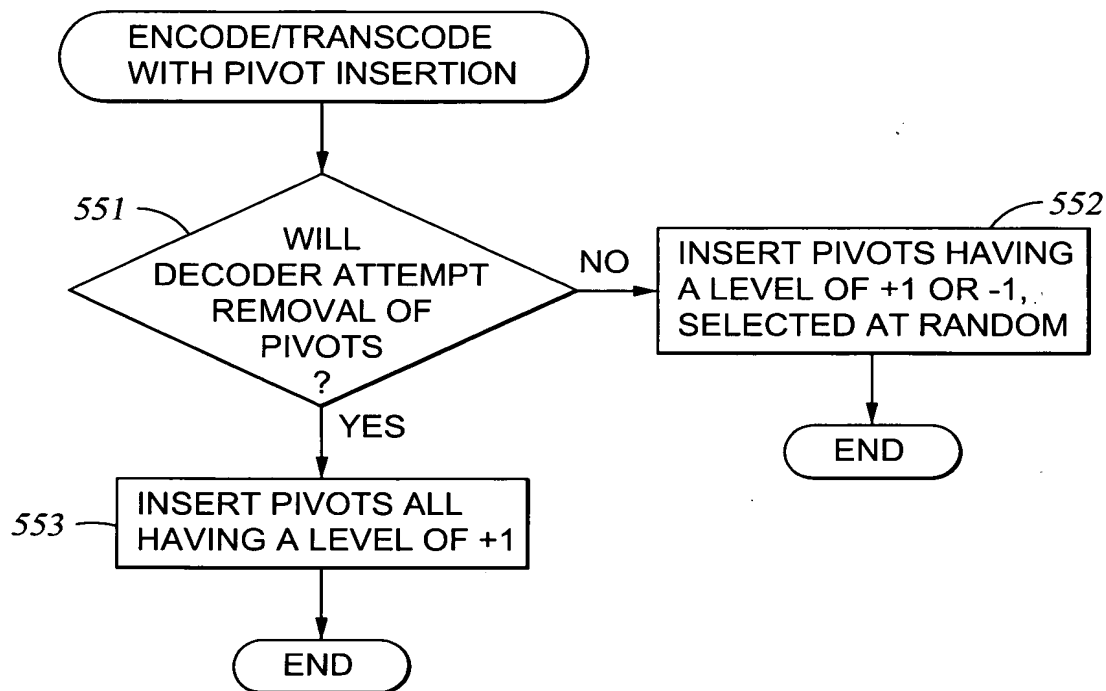
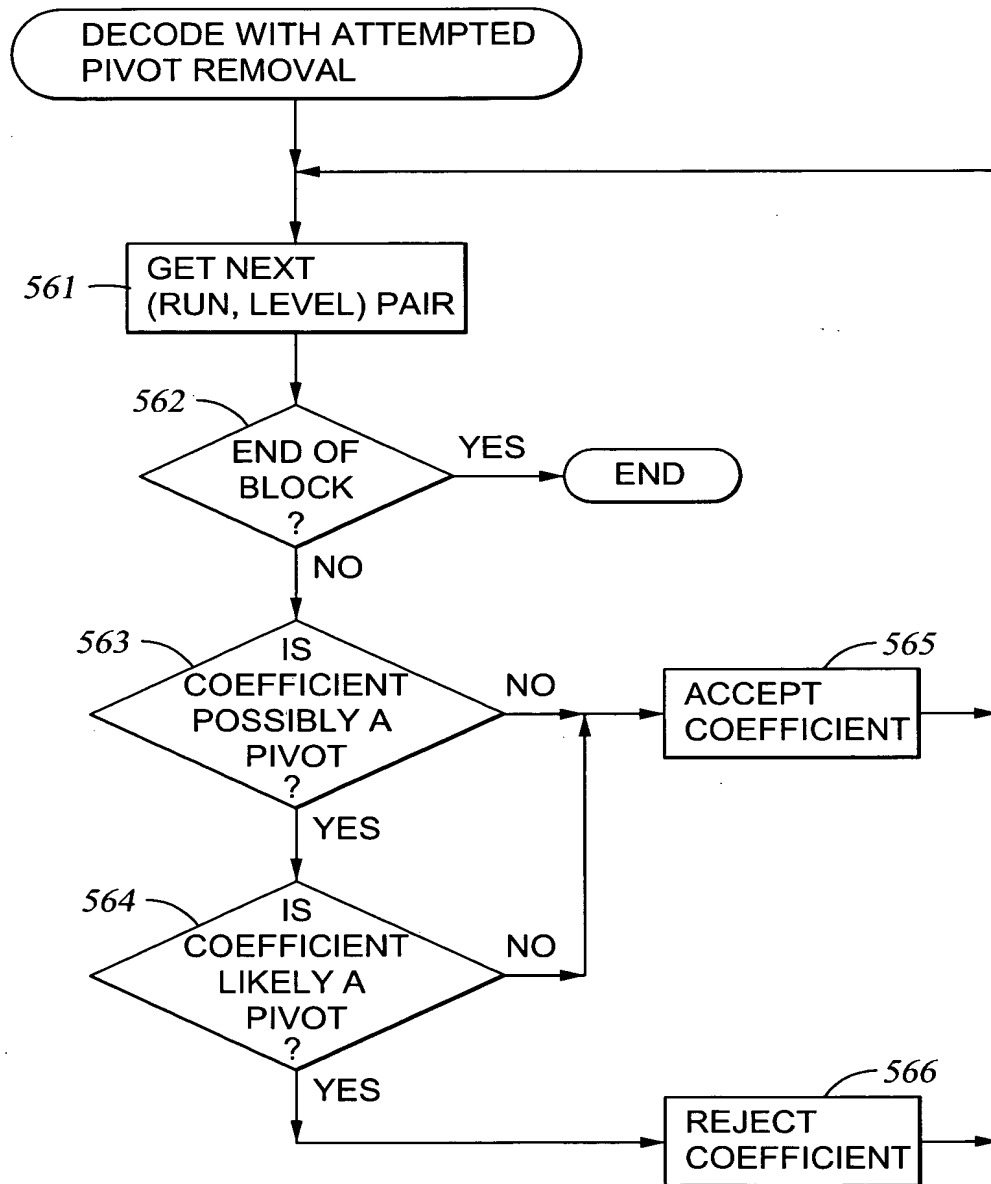
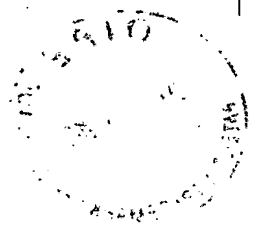


Fig. 40

*Fig. 41*

*Fig. 42*

*Fig. 43*

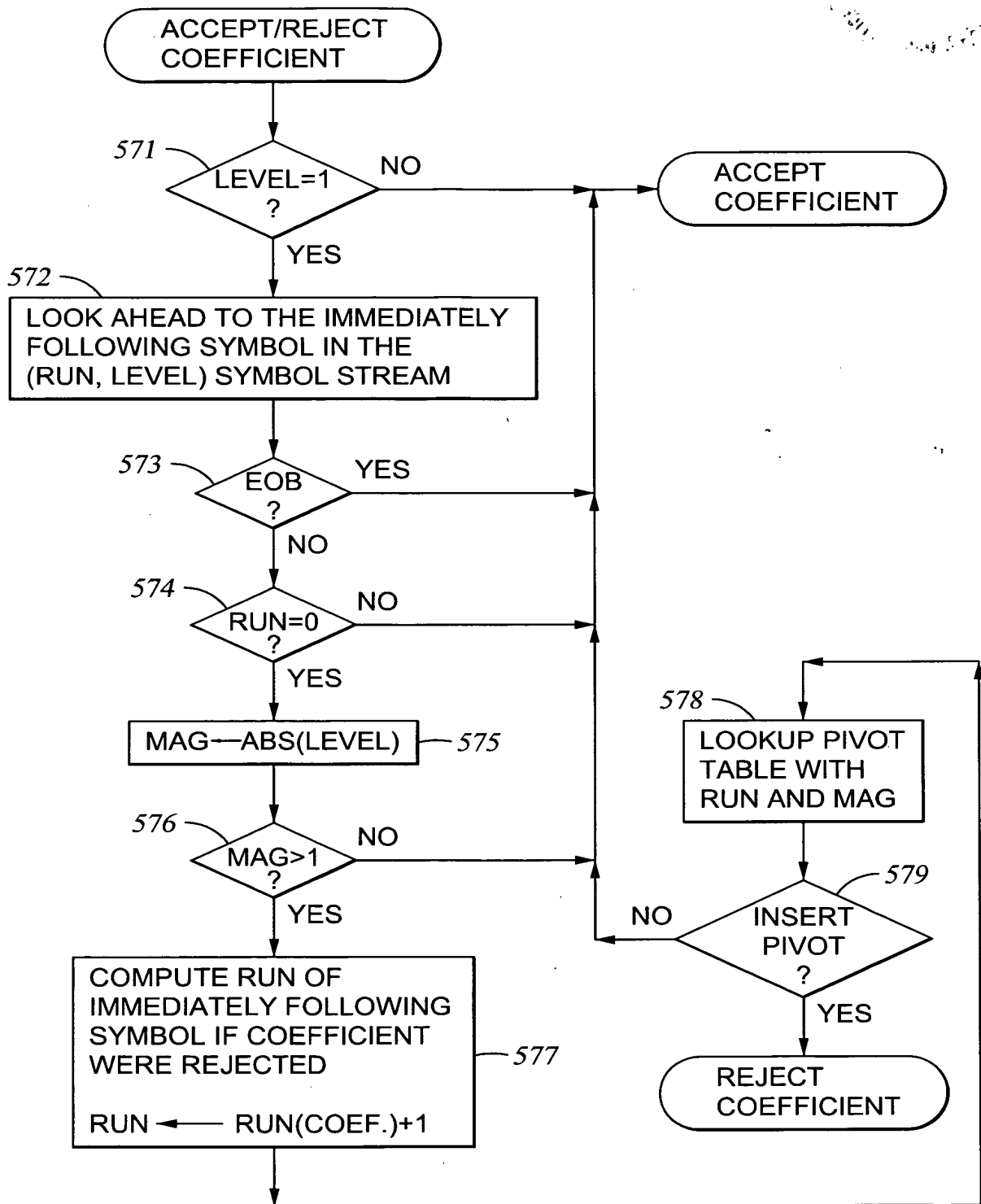


Fig. 44

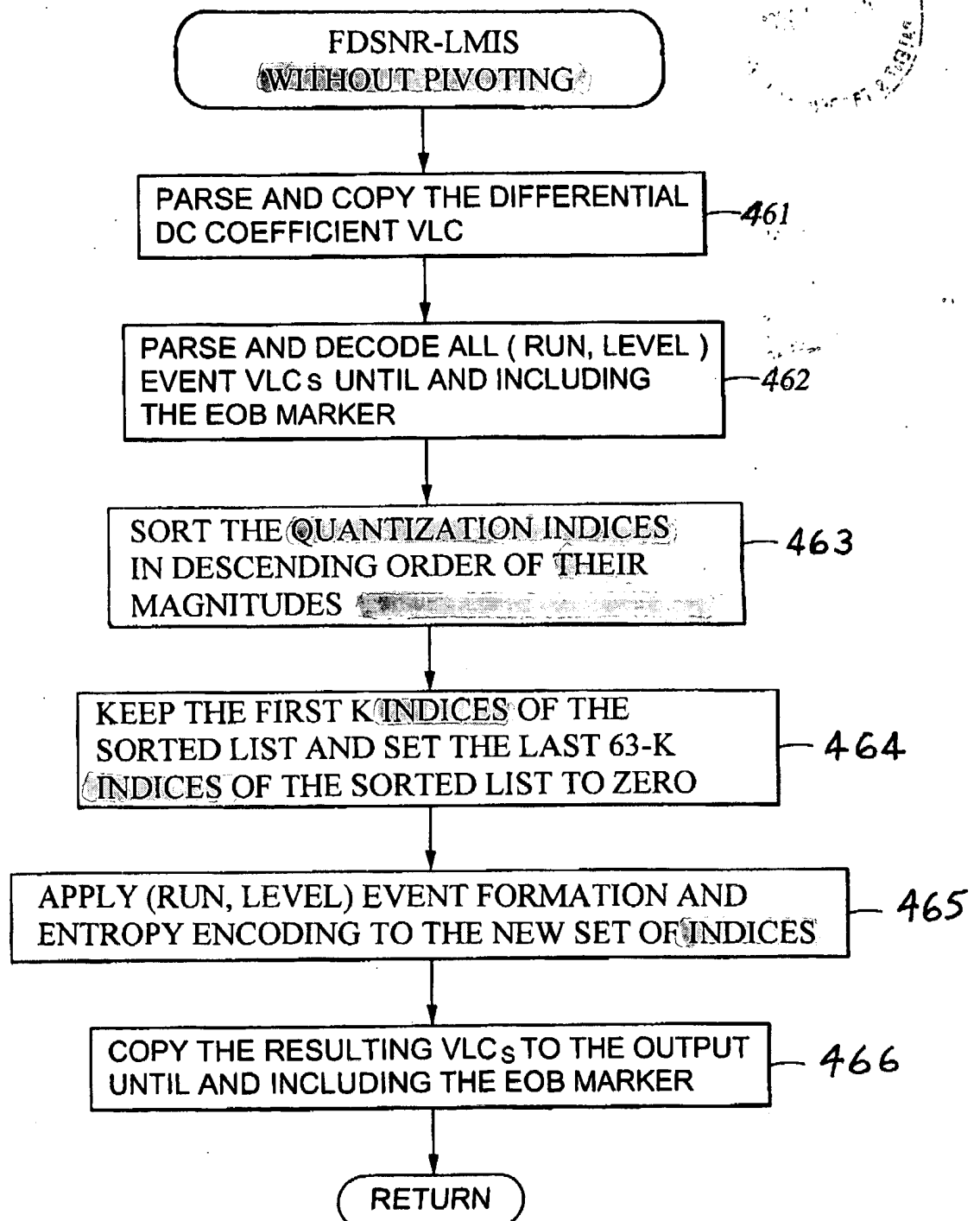


FIG. 30

REDUCTION OF THE NUMBER OF BITS FOR
RUN-LEVEL ENCODING OF TRANSFORM
COEFFICIENTS OF A BLOCK-CODED PICTURE

481

PIVOT-1 TECHNIQUE

SELECTIVELY RETAIN NON-QUALIFYING
NON-ZERO AC COEFFICIENTS IN ORDER
TO AVOID ESCAPE SEQUENCES

482

PIVOT-2 TECHNIQUE

REDUCE THE MAGNITUDE OF THE LEVEL OF
THE RETAINED NON-QUALIFYING NON-ZERO
AC COEFFICIENTS TO A VALUE OF ONE IN
ORDER TO ELIMINATE MORE ESCAPE
SEQUENCES AND TO REDUCE THE NUMBER
OF BITS FOR (RUN, LEVEL) ENCODINGS

483

PIVOT-3 TECHNIQUE

AVOID ESCAPE SEQUENCES AND/OR REDUCE
THE NUMBER OF BITS FOR (RUN, LEVEL)
ENCODING BY SELECTIVELY INSERTING A
NOISE COEFFICIENT OF LEVEL MAGNITUDE
EQUAL TO ONE (I.E., A PIVOT POINT WHICH IS A
ZERO-VALUE AC COEFFICIENT IN THE
ENCODING OF THE ORIGINAL PICTURE) IN THE
SCAN ORDER JUST BEFORE EACH QUALIFYING
NON-ZERO AC COEFFICIENT

FIG. 33

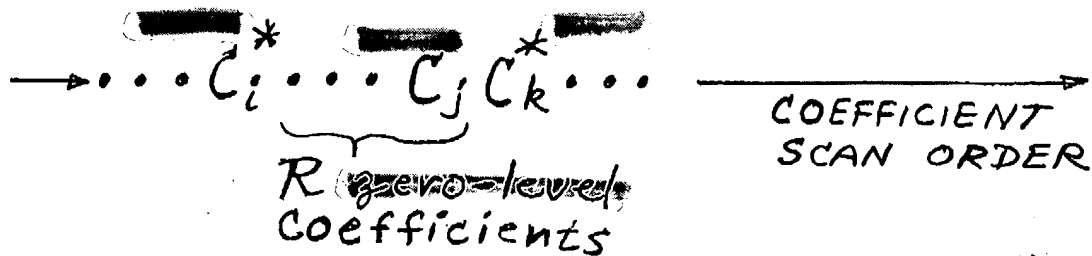


FIG. 36

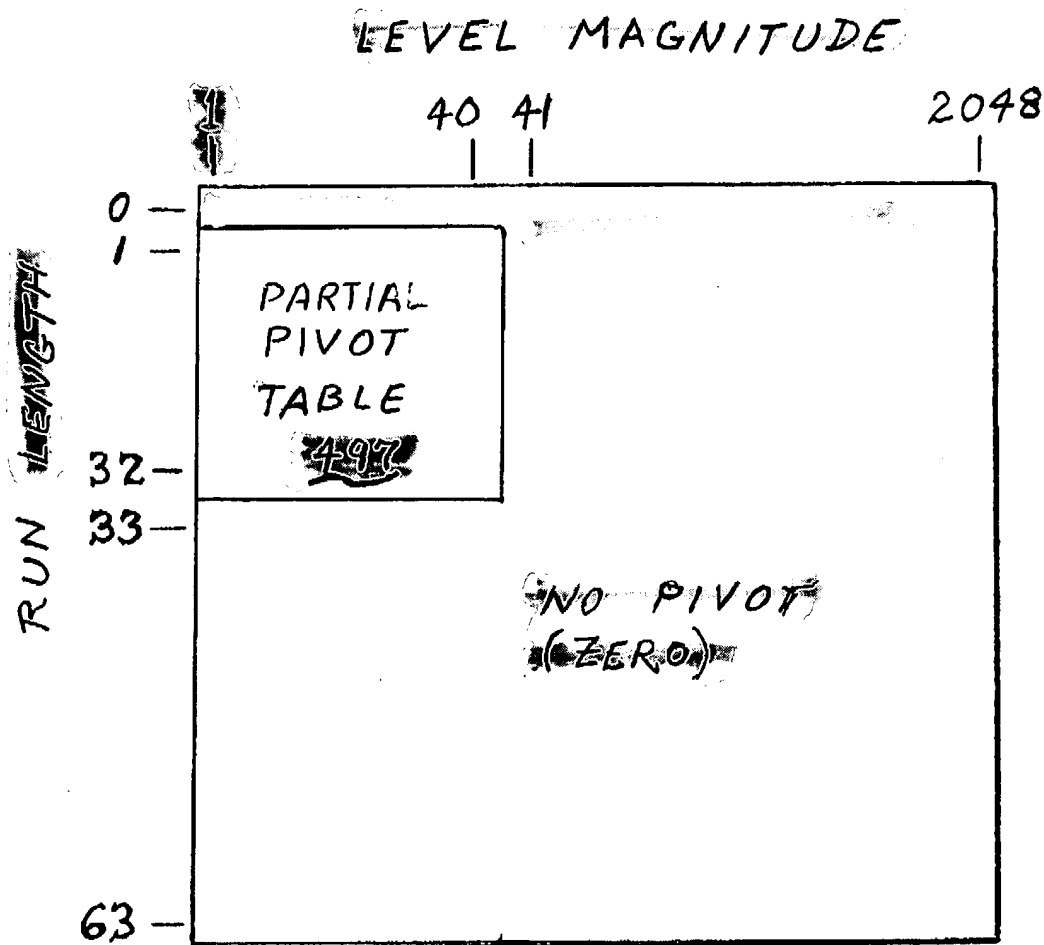


FIG. 37

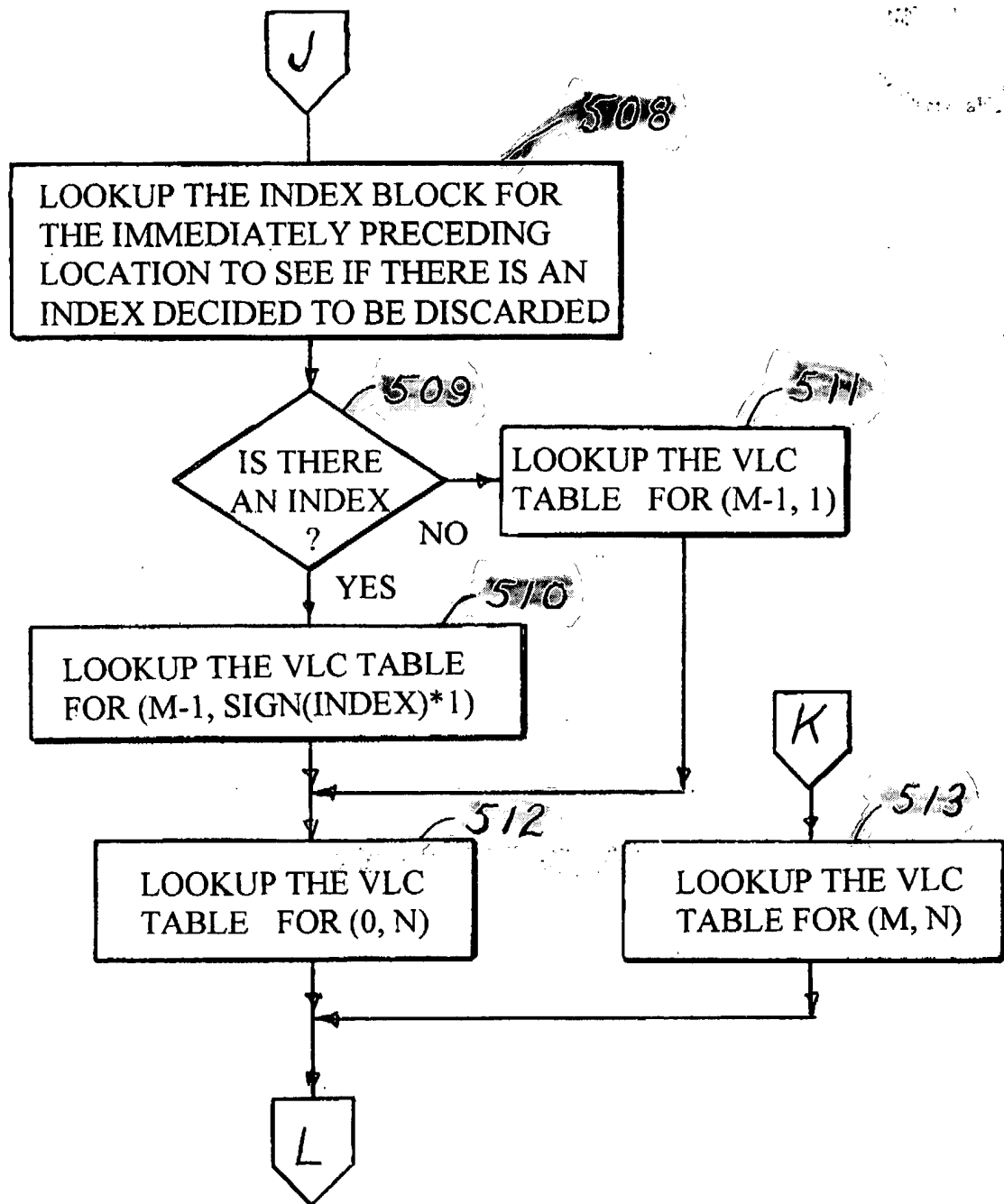


FIG. 39

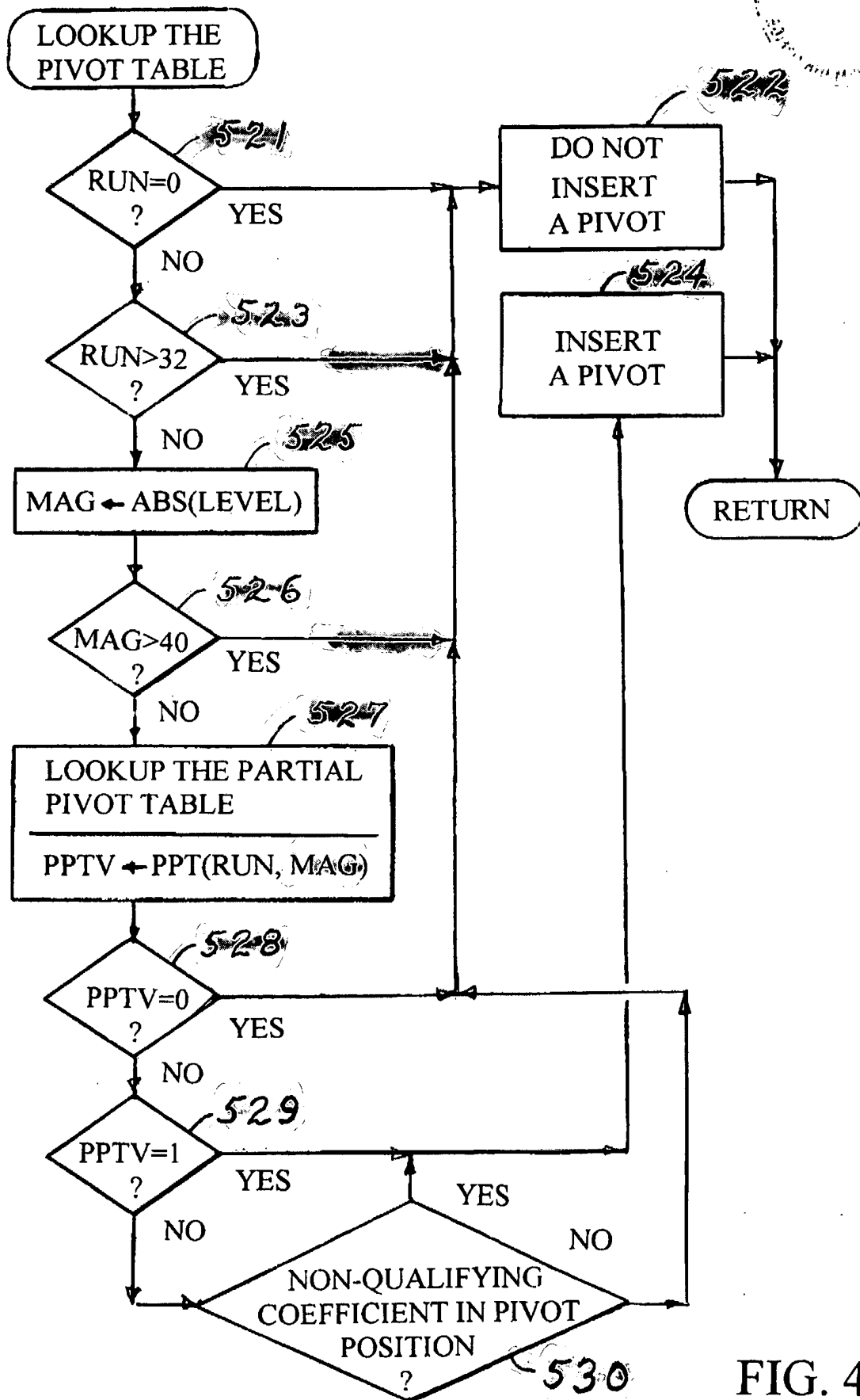


FIG. 40

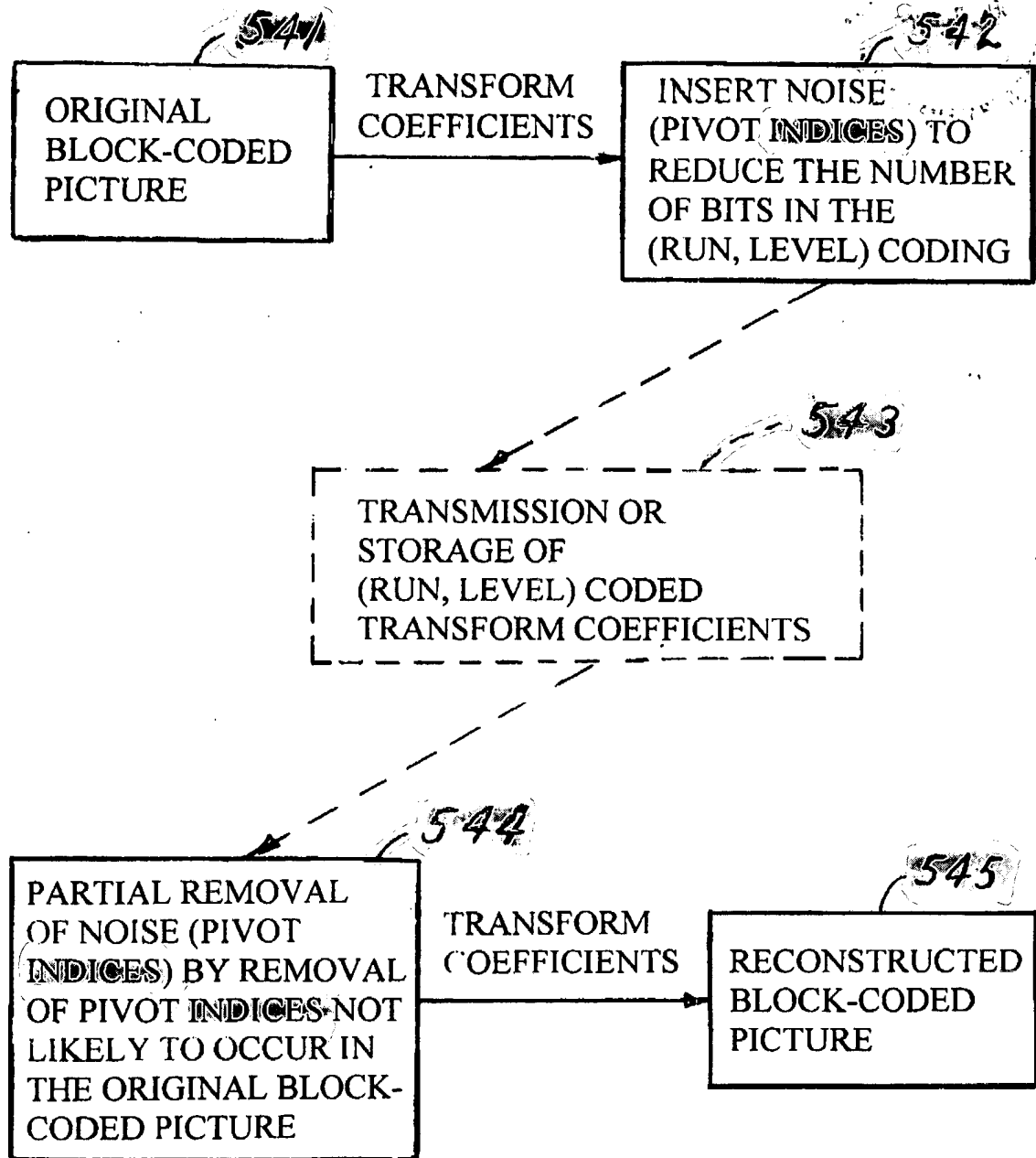


FIG. 41